

Angela T S Wyse

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

355
papers

7,618
citations

41
h-index

59
g-index

360
ext. papers

8,303
ext. citations

4
avg, IF

5.57
L-index

#	Paper	IF	Citations
355	NTPDase and 5Rnucleotidase activities in physiological and disease conditions: new perspectives for human health. <i>BioFactors</i> , 2007 , 31, 77-98	6.1	165
354	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
353	Preconditioning prevents the inhibition of Na ⁺ ,K ⁺ -ATPase activity after brain ischemia. <i>Neurochemical Research</i> , 2000 , 25, 971-5	4.6	127
352	Differential macrophage activation alters the expression profile of NTPDase and ecto-5Rnucleotidase. <i>PLoS ONE</i> , 2012 , 7, e31205	3.7	115
351	Methylmalonate administration decreases Na ⁺ ,K ⁺ -ATPase activity in cerebral cortex of rats. <i>NeuroReport</i> , 2000 , 11, 2331-4	1.7	112
350	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
349	Inhibition of Na(+),K(+)-ATPase activity in hippocampus of rats subjected to acute administration of homocysteine is prevented by vitamins E and C treatment. <i>Neurochemical Research</i> , 2002 , 27, 1685-9	4.6	86
348	Reduction of hippocampal Na ⁺ , K ⁺ -ATPase activity in rats subjected to an experimental model of depression. <i>Neurochemical Research</i> , 2003 , 28, 1339-44	4.6	80
347	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
346	Reduction of Na(+),K(+)-ATPase activity in hippocampus of rats subjected to chemically induced hyperhomocysteinemia. <i>Neurochemical Research</i> , 2002 , 27, 1593-8	4.6	78
345	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
344	Glutaric acid induces oxidative stress in brain of young rats. <i>Brain Research</i> , 2003 , 964, 153-8	3.7	72
343	Chronic hyperhomocysteinemia alters antioxidant defenses and increases DNA damage in brain and blood of rats: protective effect of folic acid. <i>Neurochemistry International</i> , 2009 , 54, 7-13	4.4	69
342	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
341	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
340	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
339	Resveratrol prevents oxidative stress and inhibition of Na(+),K(+)-ATPase activity induced by transient global cerebral ischemia in rats. <i>Journal of Nutritional Biochemistry</i> , 2011 , 22, 921-8	6.3	66

338	Methylphenidate affects memory, brain-derived neurotrophic factor immunocentent and brain acetylcholinesterase activity in the rat. <i>Neurobiology of Learning and Memory</i> , 2010 , 94, 247-53	3.1	62
337	Chronic hyperhomocysteinemia provokes a memory deficit in rats in the Morris water maze task. <i>Behavioural Brain Research</i> , 2004 , 153, 377-81	3.4	60
336	Homocysteine induces oxidative-nitrative stress in heart of rats: prevention by folic acid. <i>Cardiovascular Toxicology</i> , 2011 , 11, 67-73	3.4	58
335	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
334	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
333	Oxidative stress mediated by NMDA, AMPA/KA channels in acute hippocampal slices: neuroprotective effect of resveratrol. <i>Toxicology in Vitro</i> , 2014 , 28, 544-51	3.6	55
332	Arginine administration inhibits hippocampal Na(+),K(+)-ATPase activity and impairs retention of an inhibitory avoidance task in rats. <i>Brain Research</i> , 2002 , 951, 151-7	3.7	55
331	Pretreatment with vitamins E and C prevent the impairment of memory caused by homocysteine administration in rats. <i>Metabolic Brain Disease</i> , 2002 , 17, 211-7	3.9	53
330	Training in inhibitory avoidance causes a reduction of Na+,K+-ATPase activity in rat hippocampus. <i>Physiology and Behavior</i> , 2004 , 80, 475-9	3.5	53
329	Evidences that maternal swimming exercise improves antioxidant defenses and induces mitochondrial biogenesis in the brain of young Wistar rats. <i>Neuroscience</i> , 2013 , 246, 28-39	3.9	52
328	Chronic treatment with glutaric acid induces partial tolerance to excitotoxicity in neuronal cultures from chick embryo telencephalons. <i>Journal of Neuroscience Research</i> , 2002 , 68, 424-31	4.4	51
327	Behavioral and neurochemical effects of proline. <i>Metabolic Brain Disease</i> , 2011 , 26, 159-72	3.9	50
326	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
325	Na+,K(+)-ATPase activity is reduced in hippocampus of rats submitted to an experimental model of depression: effect of chronic lithium treatment and possible involvement in learning deficits. <i>Neurobiology of Learning and Memory</i> , 2005 , 84, 102-10	3.1	48
324	Proline induces oxidative stress in cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 105-10	2.7	47
323	Vitamins E and C pretreatment prevents ovariectomy-induced memory deficits in water maze. <i>Neurobiology of Learning and Memory</i> , 2005 , 84, 192-9	3.1	46
322	Neonatal hypoxia-ischemia induces sex-related changes in rat brain mitochondria. <i>Mitochondrion</i> , 2012 , 12, 271-9	4.9	45
321	Homocysteine induces cytoskeletal remodeling and production of reactive oxygen species in cultured cortical astrocytes. <i>Brain Research</i> , 2010 , 1355, 151-64	3.7	45

320	Inhibition of Na ⁺ ,K ⁺ -ATPase from rat brain cortex by propionic acid. <i>NeuroReport</i> , 1998 , 9, 1719-21	1.7	44
319	Mild hyperhomocysteinemia increases brain acetylcholinesterase and proinflammatory cytokine levels in different tissues. <i>Molecular Neurobiology</i> , 2014 , 50, 589-96	6.2	43
318	Inhibition of rat brain Na ⁺ , K ⁺ -ATPase activity induced by homocysteine is probably mediated by oxidative stress. <i>Neurochemical Research</i> , 2001 , 26, 1195-200	4.6	43
317	Methionine alters Na ⁺ ,K ⁺ -ATPase activity, lipid peroxidation and nonenzymatic antioxidant defenses in rat hippocampus. <i>International Journal of Developmental Neuroscience</i> , 2005 , 23, 651-6	2.7	42
316	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
315	Brain energy metabolism is compromised by the metabolites accumulating in homocystinuria. <i>Neurochemistry International</i> , 2003 , 43, 597-602	4.4	41
314	Guanidinoacetate decreases antioxidant defenses and total protein sulfhydryl content in striatum of rats. <i>Neurochemical Research</i> , 2008 , 33, 1804-10	4.6	40
313	Gamma-hydroxybutyric acid induces oxidative stress in cerebral cortex of young rats. <i>Neurochemistry International</i> , 2007 , 50, 564-70	4.4	40
312	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
311	Inhibition of Na ⁺ , K ⁺ -ATPase activity by the metabolites accumulating in homocystinuria. <i>Metabolic Brain Disease</i> , 2002 , 17, 83-91	3.9	40
310	Guanidino compounds inhibit acetylcholinesterase and butyrylcholinesterase activities: effect neuroprotector of vitamins E plus C. <i>International Journal of Developmental Neuroscience</i> , 2010 , 28, 465-73	2.7	39
309	Concurrent folate treatment prevents Na ⁺ ,K ⁺ -ATPase activity inhibition and memory impairments caused by chronic hyperhomocysteinemia during rat development. <i>International Journal of Developmental Neuroscience</i> , 2007 , 25, 545-52	2.7	39
308	Inhibition of creatine kinase activity in vitro by ethylmalonic acid in cerebral cortex of young rats. <i>Neurochemical Research</i> , 2002 , 27, 1633-9	4.6	39
307	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
306	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
305	In vitro inhibition of Na ⁺ ,K ⁽⁺⁾ -ATPase activity from rat cerebral cortex by guanidino compounds accumulating in hyperargininemia. <i>Brain Research</i> , 1999 , 838, 78-84	3.7	38
304	Inhibition of mitochondrial creatine kinase activity from rat cerebral cortex by methylmalonic acid. <i>Neurochemistry International</i> , 2004 , 45, 661-7	4.4	37
303	Methylphenidate induces lipid and protein damage in prefrontal cortex, but not in cerebellum, striatum and hippocampus of juvenile rats. <i>Metabolic Brain Disease</i> , 2012 , 27, 605-12	3.9	35

302	Behavioral changes induced by long-term proline exposure are reversed by antipsychotics in zebrafish. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2012 , 36, 258-63	5.5	35
301	Chronic hyperhomocysteinemia increases inflammatory markers in hippocampus and serum of rats. <i>Neurochemical Research</i> , 2012 , 37, 1660-9	4.6	35
300	Na ⁺ , K ⁺ ATPase activity is reduced in amygdala of rats with chronic stress-induced anxiety-like behavior. <i>Neurochemical Research</i> , 2010 , 35, 1787-95	4.6	35
299	Arginine administration decreases cerebral cortex acetylcholinesterase and serum butyrylcholinesterase probably by oxidative stress induction. <i>Neurochemical Research</i> , 2004 , 29, 385-9	4.6	35
298	In vivo and in vitro effects of homocysteine on Na ⁺ , K ⁺ -ATPase activity in parietal, prefrontal and cingulate cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2004 , 22, 185-90	2.7	35
297	Development of an animal model for chronic mild hyperhomocysteinemia and its response to oxidative damage. <i>International Journal of Developmental Neuroscience</i> , 2011 , 29, 693-9	2.7	34
296	Experimental evidence of oxidative stress in plasma of homocystinuric patients: a possible role for homocysteine. <i>Molecular Genetics and Metabolism</i> , 2011 , 104, 112-7	3.7	34
295	Antioxidant effect of cysteamine in brain cortex of young rats. <i>Neurochemical Research</i> , 2008 , 33, 737-44	4.6	34
294	Intrastriatal administration of guanidinoacetate inhibits Na ⁺ , K ⁺ -ATPase and creatine kinase activities in rat striatum. <i>Metabolic Brain Disease</i> , 2006 , 21, 41-50	3.9	34
293	Early biochemical effects after unilateral hypoxia-ischemia in the immature rat brain. <i>International Journal of Developmental Neuroscience</i> , 2011 , 29, 115-20	2.7	33
292	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
291	Inhibition of the mitochondrial respiratory chain by phenylalanine in rat cerebral cortex. <i>Neurochemical Research</i> , 2002 , 27, 353-7	4.6	33
290	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
289	Early life adversities or high fat diet intake reduce cognitive function and alter BDNF signaling in adult rats: Interplay of these factors changes these effects. <i>International Journal of Developmental Neuroscience</i> , 2016 , 50, 16-25	2.7	32
288	Proline reduces acetylcholinesterase activity in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2003 , 18, 79-86	3.9	32
287	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
286	P2X7 Receptor Signaling Contributes to Sepsis-Associated Brain Dysfunction. <i>Molecular Neurobiology</i> , 2017 , 54, 6459-6470	6.2	31
285	Acute homocysteine administration impairs memory consolidation on inhibitory avoidance task and decreases hippocampal brain-derived neurotrophic factor immunoccontent: prevention by folic acid treatment. <i>Neuroscience</i> , 2009 , 163, 1039-45	3.9	31

284	Chronic variable stress induces oxidative stress and decreases butyrylcholinesterase activity in blood of rats. <i>Journal of Neural Transmission</i> , 2010 , 117, 1067-76	4.3	31
283	Increased inflammatory markers in brain and blood of rats subjected to acute homocysteine administration. <i>Metabolic Brain Disease</i> , 2010 , 25, 199-206	3.9	31
282	Chronic variable stress impairs energy metabolism in prefrontal cortex and hippocampus of rats: prevention by chronic antioxidant treatment. <i>Metabolic Brain Disease</i> , 2010 , 25, 169-76	3.9	31
281	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
280	Autophagy induces eosinophil extracellular traps formation and allergic airway inflammation in a murine asthma model. <i>Journal of Cellular Physiology</i> , 2020 , 235, 267-280	7	31
279	Chronic variable stress alters inflammatory and cholinergic parameters in hippocampus of rats. <i>Neurochemical Research</i> , 2011 , 36, 487-93	4.6	30
278	Tyrosine promotes oxidative stress in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2008 , 26, 551-9	2.7	30
277	Evidence that glutaric acid reduces glutamate uptake by cerebral cortex of infant rats. <i>Life Sciences</i> , 2007 , 81, 1668-76	6.8	30
276	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
275	Reactive oxygen species are involved in eosinophil extracellular traps release and in airway inflammation in asthma. <i>Journal of Cellular Physiology</i> , 2019 , 234, 23633-23646	7	29
274	Are the consequences of neonatal hypoxia-ischemia dependent on animalsRsex and brain lateralization?. <i>Brain Research</i> , 2013 , 1507, 105-14	3.7	29
273	Homocysteine alters glutamate uptake and Na ⁺ ,K ⁺ -ATPase activity and oxidative status in rats hippocampus: protection by vitamin C. <i>Metabolic Brain Disease</i> , 2011 , 26, 61-7	3.9	29
272	The beneficial effects of treadmill step training on activity-dependent synaptic and cellular plasticity markers after complete spinal cord injury. <i>Neurochemical Research</i> , 2011 , 36, 1046-55	4.6	29
271	Homocysteine activates calcium-mediated cell signaling mechanisms targeting the cytoskeleton in rat hippocampus. <i>International Journal of Developmental Neuroscience</i> , 2008 , 26, 447-55	2.7	29
270	Chemically induced model of hypermethioninemia in rats. <i>Journal of Neuroscience Methods</i> , 2007 , 160, 1-4	3	29
269	alpha-Tocopherol and ascorbic acid prevent memory deficits provoked by chronic hyperprolinemia in rats. <i>Behavioural Brain Research</i> , 2006 , 168, 185-9	3.4	29
268	Glutaric acid administration impairs energy metabolism in midbrain and skeletal muscle of young rats. <i>Neurochemical Research</i> , 2005 , 30, 1123-31	4.6	29
267	Bezafibrate prevents mitochondrial dysfunction, antioxidant system disturbance, glial reactivity and neuronal damage induced by sulfite administration in striatum of rats: Implications for a possible therapeutic strategy for sulfite oxidase deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 2135-2148	6.9	28

266	Treadmill running prevents age-related memory deficit and alters neurotrophic factors and oxidative damage in the hippocampus of Wistar rats. <i>Behavioural Brain Research</i> , 2017 , 334, 78-85	3.4	28
265	Neurotoxicity of Methylmercury in Isolated Astrocytes and Neurons: the Cytoskeleton as a Main Target. <i>Molecular Neurobiology</i> , 2017 , 54, 5752-5767	6.2	28
264	Running exercise effects on spatial and avoidance tasks in ovariectomized rats. <i>Neurobiology of Learning and Memory</i> , 2010 , 94, 312-7	3.1	28
263	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
262	Exercise effects on activities of Na(+),K(+)-ATPase, acetylcholinesterase and adenine nucleotides hydrolysis in ovariectomized rats. <i>Brain Research</i> , 2009 , 1302, 248-55	3.7	27
261	Promotion of oxidative stress by L-tryptophan in cerebral cortex of rats. <i>Neurochemistry International</i> , 2006 , 49, 87-93	4.4	27
260	L-2-hydroxyglutaric acid inhibits mitochondrial creatine kinase activity from cerebellum of developing rats. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 217-24	2.7	27
259	Impairment of energy metabolism in hippocampus of rats subjected to chemically-induced hyperhomocysteinemia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2003 , 1637, 187-92	6.9	27
258	Inhibition of Na ⁺ ,K ⁺ -ATPase activity from rat hippocampus by proline. <i>Neurochemical Research</i> , 2001 , 26, 1321-6	4.6	27
257	Kynurenic Acid Restores Nrf2 Levels and Prevents Quinolinic Acid-Induced Toxicity in Rat Striatal Slices. <i>Molecular Neurobiology</i> , 2018 , 55, 8538-8549	6.2	26
256	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
255	Induction of oxidative stress by the metabolites accumulating in 3-methylglutaconic aciduria in cerebral cortex of young rats. <i>Life Sciences</i> , 2008 , 82, 652-62	6.8	26
254	Kynurenines impair energy metabolism in rat cerebral cortex. <i>Cellular and Molecular Neurobiology</i> , 2007 , 27, 147-60	4.6	26
253	Evidence that oxidative stress is involved in the inhibitory effect of proline on Na(+),K(+)-ATPase activity in synaptic plasma membrane of rat hippocampus. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 303-7	2.7	26
252	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
251	Mechanistic basis of hypermethioninemia. <i>Amino Acids</i> , 2016 , 48, 2479-2489	3.5	25
250	Antioxidants prevent memory deficits provoked by chronic variable stress in rats. <i>Neurochemical Research</i> , 2011 , 36, 2373-80	4.6	25
249	Ethylmalonic acid inhibits mitochondrial creatine kinase activity from cerebral cortex of young rats in vitro. <i>Neurochemical Research</i> , 2003 , 28, 771-7	4.6	25

248	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
247	Chronic hyperprolinemia provokes a memory deficit in the Morris water maze task. <i>Metabolic Brain Disease</i> , 2005 , 20, 73-80	3.9	25
246	Sulfite disrupts brain mitochondrial energy homeostasis and induces mitochondrial permeability transition pore opening via thiol group modification. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1413-22	6.9	24
245	Homocysteine induces energy imbalance in rat skeletal muscle: is creatine a protector?. <i>Cell Biochemistry and Function</i> , 2013 , 31, 575-84	4.2	24
244	5-Oxoproline reduces non-enzymatic antioxidant defenses in vitro in rat brain. <i>Metabolic Brain Disease</i> , 2007 , 22, 51-65	3.9	24
243	Glutaric acid moderately compromises energy metabolism in rat brain. <i>International Journal of Developmental Neuroscience</i> , 2005 , 23, 687-93	2.7	24
242	Ovariectomy increases Na ⁺ , K ⁺ -ATPase, acetylcholinesterase and catalase in rat hippocampus. <i>Molecular and Cellular Endocrinology</i> , 2005 , 236, 9-16	4.4	24
241	Reduction of butyrylcholinesterase activity in rat serum subjected to hyperhomocysteinemia. <i>Metabolic Brain Disease</i> , 2005 , 20, 97-103	3.9	24
240	Creatine as a Neuroprotector: an Actor that Can Play Many Parts. <i>Neurotoxicity Research</i> , 2019 , 36, 411-423	4.3	23
239	Folic acid prevents behavioral impairment and Na ⁽⁺⁾ , K ⁽⁺⁾ -ATPase inhibition caused by neonatal hypoxia-ischemia. <i>Neurochemical Research</i> , 2012 , 37, 1624-30	4.6	23
238	In vitro effect of quinolinic acid on energy metabolism in brain of young rats. <i>Neuroscience Research</i> , 2007 , 57, 277-88	2.9	23
237	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
236	Inhibition of Na ⁺ , K ⁺ -ATPase activity in rat striatum by the metabolites accumulated in Lesch-Nyhan disease. <i>International Journal of Developmental Neuroscience</i> , 2004 , 22, 11-7	2.7	23
235	Alanine prevents the decrease of Na ⁺ ,K ⁺ -ATPase activity in experimental phenylketonuria. <i>Metabolic Brain Disease</i> , 1999 , 14, 95-101	3.9	23
234	Association between Na ⁺ ,K ⁺ -ATPase activity and the vulnerability/resilience to mood disorders induced by early life experience. <i>Neurochemical Research</i> , 2011 , 36, 2075-82	4.6	22
233	Brain Na ⁺ ,K ⁽⁺⁾ -ATPase inhibition induced by arginine administration is prevented by vitamins E and C. <i>Neurochemical Research</i> , 2003 , 28, 825-9	4.6	22
232	Reduction of energy metabolism in rat hippocampus by arginine administration. <i>Brain Research</i> , 2003 , 983, 58-63	3.7	22
231	Development of an animal model for gestational hypermethioninemia in rat and its effect on brain Na ⁺ ,K ⁺ -ATPase/Mg ²⁺ -ATPase activity and oxidative status of the offspring. <i>Metabolic Brain Disease</i> , 2014 , 29, 153-60	3.9	21

230	Contextual fear conditioning in maternal separated rats: the amygdala as a site for alterations. <i>Neurochemical Research</i> , 2014 , 39, 384-93	4.6	21
229	Physical exercise reverses glutamate uptake and oxidative stress effects of chronic homocysteine administration in the rat. <i>International Journal of Developmental Neuroscience</i> , 2012 , 30, 69-74	2.7	21
228	Hypermethioninemia provokes oxidative damage and histological changes in liver of rats. <i>Biochimie</i> , 2009 , 91, 961-8	4.6	21
227	Protective effect of nitric oxide synthase inhibition or antioxidants on brain oxidative damage caused by intracerebroventricular arginine administration. <i>Brain Research</i> , 2008 , 1193, 120-7	3.7	21
226	Hypermethioninemia increases cerebral acetylcholinesterase activity and impairs memory in rats. <i>Neurochemical Research</i> , 2007 , 32, 1868-74	4.6	21
225	Effect of leucine administration on creatine kinase activity in rat brain. <i>Metabolic Brain Disease</i> , 2003 , 18, 17-25	3.9	21
224	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
223	1,25-Dihydroxyvitamin D3 exerts neuroprotective effects in an ex vivo model of mild hyperhomocysteinemia. <i>International Journal of Developmental Neuroscience</i> , 2016 , 48, 71-9	2.7	20
222	Ammonia impairs glutamatergic communication in astroglial cells: protective role of resveratrol. <i>Toxicology in Vitro</i> , 2015 , 29, 2022-9	3.6	20
221	Coumestrol treatment prevents Na ⁺ , K ⁺ -ATPase inhibition and affords histological neuroprotection to male rats receiving cerebral global ischemia. <i>Neurological Research</i> , 2014 , 36, 198-206	2.7	20
220	Long-term methionine exposure induces memory impairment on inhibitory avoidance task and alters acetylcholinesterase activity and expression in zebrafish (<i>Danio rerio</i>). <i>Neurochemical Research</i> , 2012 , 37, 1545-53	4.6	20
219	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
218	Intrastriatal hypoxanthine reduces Na(+),K (+)-ATPase activity and induces oxidative stress in the rats. <i>Metabolic Brain Disease</i> , 2007 , 22, 1-11	3.9	20
217	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
216	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
215	Evaluation of the mechanism underlying the inhibitory effect of guanidinoacetate on brain Na ⁺ , K ⁺ -ATPase activity. <i>International Journal of Developmental Neuroscience</i> , 2004 , 22, 191-6	2.7	20
214	Quinolinic acid neurotoxicity: Differential roles of astrocytes and microglia via FGF-2-mediated signaling in redox-linked cytoskeletal changes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016 , 1863, 3001-3014	4.9	20
213	Homocysteine Induces Glial Reactivity in Adult Rat Astrocyte Cultures. <i>Molecular Neurobiology</i> , 2018 , 55, 1966-1976	6.2	19

212	Chronic methylphenidate administration alters antioxidant defenses and butyrylcholinesterase activity in blood of juvenile rats. <i>Molecular and Cellular Biochemistry</i> , 2012 , 361, 281-8	4.2	19
211	Chronic hyperhomocysteinemia induces oxidative damage in the rat lung. <i>Molecular and Cellular Biochemistry</i> , 2011 , 358, 153-60	4.2	19
210	Na ⁺ ,K ⁺ -ATPase activity in an animal model of mania. <i>Journal of Neural Transmission</i> , 2009 , 116, 431-6	4.3	19
209	Mesenchymal stem cell-conditioned medium triggers neuroinflammation and reactive species generation in organotypic cultures of rat hippocampus. <i>Stem Cells and Development</i> , 2011 , 20, 1171-81	4.4	19
208	Folic acid pretreatment prevents the reduction of Na(+),K(+)-ATPase and butyrylcholinesterase activities in rats subjected to acute hyperhomocysteinemia. <i>International Journal of Developmental Neuroscience</i> , 2006 , 24, 3-8	2.7	19
207	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
206	Proline reduces creatine kinase activity in the brain cortex of rats. <i>Neurochemical Research</i> , 2003 , 28, 1175-80	4.6	19
205	In vitro effects of L-arginine and guanidino compounds on NTPDase1 and 5Rnucleotidase activities from rat brain synaptosomes. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 75-82	2.7	19
204	Inhibition of Na ⁺ , K ⁺ -ATPase activity in rat striatum by guanidinoacetate. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 183-9	2.7	19
203	Effect of hyperprolinemia on acetylcholinesterase and butyrylcholinesterase activities in rat. <i>Amino Acids</i> , 2005 , 28, 305-8	3.5	19
202	Methylphenidate Causes Behavioral Impairments and Neuron and Astrocyte Loss in the Hippocampus of Juvenile Rats. <i>Molecular Neurobiology</i> , 2017 , 54, 4201-4216	6.2	18
201	Isolation stress during the prepubertal period in rats induces long-lasting neurochemical changes in the prefrontal cortex. <i>Neurochemical Research</i> , 2012 , 37, 1063-73	4.6	18
200	Role of antioxidants on Na(+),K (+)-ATPase activity and gene expression in cerebral cortex of hyperprolinemic rats. <i>Metabolic Brain Disease</i> , 2011 , 26, 141-7	3.9	18
199	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
198	Ovariectomy impairs spatial memory: prevention and reversal by a soy isoflavone diet. <i>Metabolic Brain Disease</i> , 2008 , 23, 243-53	3.9	18
197	Alanine reverses the inhibitory effect of phenylalanine and its metabolites on Na ⁺ ,K(+)-ATPase in synaptic plasma membranes from cerebral cortex of rats. <i>Biochemical Society Transactions</i> , 1995 , 23, 227S	5.1	18
196	Hypoxanthine induces oxidative stress in kidney of rats: protective effect of vitamins E plus C and allopurinol. <i>Cell Biochemistry and Function</i> , 2014 , 32, 387-94	4.2	17
195	Isolation during the prepubertal period associated with chronic access to palatable diets: effects on plasma lipid profile and liver oxidative stress. <i>Physiology and Behavior</i> , 2014 , 124, 23-32	3.5	17

194	Acute administration of methionine and/or methionine sulfoxide impairs redox status and induces apoptosis in rat cerebral cortex. <i>Metabolic Brain Disease</i> , 2017 , 32, 1693-1703	3.9	17
193	Methylphenidate Decreases ATP Levels and Impairs Glutamate Uptake and Na,K-ATPase Activity in Juvenile Rat Hippocampus. <i>Molecular Neurobiology</i> , 2017 , 54, 7796-7807	6.2	17
192	MK-801 alters Na ⁺ , K ⁺ -ATPase activity and oxidative status in zebrafish brain: reversal by antipsychotic drugs. <i>Journal of Neural Transmission</i> , 2012 , 119, 661-7	4.3	17
191	Acute and chronic hypermethioninemia alter Na ⁺ K ⁺ -ATPase activity in rat hippocampus: prevention by antioxidants. <i>International Journal of Developmental Neuroscience</i> , 2011 , 29, 483-8	2.7	17
190	Proline impairs energy metabolism in cerebral cortex of young rats. <i>Metabolic Brain Disease</i> , 2010 , 25, 161-8	3.9	17
189	Effect of hypermethioninemia on some parameters of oxidative stress and on Na(+),K (+)-ATPase activity in hippocampus of rats. <i>Metabolic Brain Disease</i> , 2007 , 22, 172-82	3.9	17
188	Evidence that the inhibitory effects of guanidinoacetate on the activities of the respiratory chain, Na ⁺ ,K ⁺ -ATPase and creatine kinase can be differentially prevented by taurine and vitamins E and C administration in rat striatum in vivo. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007 , 1772, 563-9	6.9	17
187	Proline promotes decrease in glutamate uptake in slices of cerebral cortex and hippocampus of rats. <i>Life Sciences</i> , 2007 , 81, 1645-50	6.8	17
186	Inhibition of pyruvate kinase activity by cystine in brain cortex of rats. <i>Brain Research</i> , 2004 , 1012, 93-100	3.7	17
185	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
184	On the mechanism of the inhibition of Na(+), K(+)-ATPase activity caused by homocysteine. <i>International Journal of Developmental Neuroscience</i> , 2002 , 20, 77-81	2.7	17
183	Protective effect of green tea extract against proline-induced oxidative damage in the rat kidney. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 83, 1422-1427	7.5	17
182	Hypoxanthine Induces Neuroenergetic Impairment and Cell Death in Striatum of Young Adult Wistar Rats. <i>Molecular Neurobiology</i> , 2018 , 55, 4098-4106	6.2	16
181	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
180	Protective effect of antioxidants on brain oxidative damage caused by proline administration. <i>Neuroscience Research</i> , 2005 , 52, 69-74	2.9	16
179	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
178	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
177	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

176	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
175	Effects of previous physical exercise to chronic stress on long-term aversive memory and oxidative stress in amygdala and hippocampus of rats. <i>International Journal of Developmental Neuroscience</i> , 2017 , 56, 58-67	2.7	15
174	Chronic mild Hyperhomocysteinemia impairs energy metabolism, promotes DNA damage and induces a Nrf2 response to oxidative stress in rats brain. <i>Cellular and Molecular Neurobiology</i> , 2019 , 39, 687-700	4.6	15
173	Creatine prevents the imbalance of redox homeostasis caused by homocysteine in skeletal muscle of rats. <i>Gene</i> , 2014 , 545, 72-9	3.8	15
172	Evidence that hyperprolinemia alters glutamatergic homeostasis in rat brain: neuroprotector effect of guanosine. <i>Neurochemical Research</i> , 2012 , 37, 205-13	4.6	15
171	Cytoskeleton of cortical astrocytes as a target to proline through oxidative stress mechanisms. <i>Experimental Cell Research</i> , 2013 , 319, 89-104	4.2	15
170	Homocysteine and other markers of cardiovascular risk during a manic episode in patients with bipolar disorder. <i>Revista Brasileira De Psiquiatria</i> , 2013 , 35, 157-60	2.6	15
169	Hyperhomocysteinemia reduces glutamate uptake in parietal cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2010 , 28, 183-7	2.7	15
168	Homocysteine induces hypophosphorylation of intermediate filaments and reorganization of actin cytoskeleton in C6 glioma cells. <i>Cellular and Molecular Neurobiology</i> , 2010 , 30, 557-68	4.6	15
167	Guanidinoacetate administration increases acetylcholinesterase activity in striatum of rats and impairs retention of an inhibitory avoidance task. <i>Metabolic Brain Disease</i> , 2008 , 23, 189-98	3.9	15
166	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
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164	Alpha-tocopherol and ascorbic acid administration prevents the impairment of brain energy metabolism of hyperargininemic rats. <i>Cellular and Molecular Neurobiology</i> , 2006 , 26, 177-89	4.6	15
163	1,25-Dihydroxyvitamin D prevents deleterious effects of homocysteine on mitochondrial function and redox status in heart slices. <i>Nutrition Research</i> , 2017 , 38, 52-63	4	14
162	Lipid, Oxidative and Inflammatory Profile and Alterations in the Enzymes Paraoxonase and Butyrylcholinesterase in Plasma of Patients with Homocystinuria Due CBS Deficiency: The Vitamin B12 and Folic Acid Importance. <i>Cellular and Molecular Neurobiology</i> , 2015 , 35, 899-911	4.6	14
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160	Creatine prevents the inhibition of energy metabolism and lipid peroxidation in rats subjected to GAA administration. <i>Metabolic Brain Disease</i> , 2010 , 25, 331-8	3.9	14
159	Intrastriatal injection of hypoxanthine reduces striatal serotonin content and impairs spatial memory performance in rats. <i>Metabolic Brain Disease</i> , 2007 , 22, 67-76	3.9	14

158	Guanidinoacetate inhibits glutamate uptake in rat striatum of rats at different ages. <i>Neurochemical Research</i> , 2007 , 32, 959-64	4.6	14
157	Effects of cysteamine on oxidative status in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2008 , 23, 81-93	3.9	14
156	Effects of thyroid hormones on memory and on Na(+), K(+)-ATPase activity in rat brain. <i>Current Neurovascular Research</i> , 2007 , 4, 184-93	1.8	14
155	Dietary soy prevents brain Na+, K(+)-ATPase reduction in streptozotocin diabetic rats. <i>Diabetes Research and Clinical Practice</i> , 2005 , 69, 107-12	7.4	14
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149	Evidence that Thiosulfate Inhibits Creatine Kinase Activity in Rat Striatum via Thiol Group Oxidation. <i>Neurotoxicity Research</i> , 2018 , 34, 693-705	4.3	13
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146	Proline reduces brain cytochrome c oxidase: prevention by antioxidants. <i>International Journal of Developmental Neuroscience</i> , 2007 , 25, 17-22	2.7	13
145	Reduction of gangliosides, phospholipids and cholesterol content in cerebral cortex of rats caused by chronic hypermethioninemia. <i>International Journal of Developmental Neuroscience</i> , 2007 , 25, 473-7	2.7	13
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133	Arginine administration reduces catalase activity in midbrain of rats. <i>NeuroReport</i> , 2002 , 13, 1301-4	1.7	12
132	The Role of Oxidative Stress and Bioenergetic Dysfunction in Sulfite Oxidase Deficiency: Insights from Animal Models. <i>Neurotoxicity Research</i> , 2019 , 35, 484-494	4.3	12
131	Chronic Mild Hyperhomocysteinemia Alters Inflammatory and Oxidative/Nitrative Status and Causes Protein/DNA Damage, as well as Ultrastructural Changes in Cerebral Cortex: Is Acetylsalicylic Acid Neuroprotective?. <i>Neurotoxicity Research</i> , 2018 , 33, 580-592	4.3	11
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118	Arginine administration reduces creatine kinase activity in rat cerebellum. <i>Metabolic Brain Disease</i> , 2007 , 22, 13-23	3.9	10
117	D-2-hydroxyglutaric acid inhibits creatine kinase activity from cardiac and skeletal muscle of young rats. <i>European Journal of Clinical Investigation</i> , 2003 , 33, 840-7	4.6	10
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113	Cholinergic anti-inflammatory pathway confers airway protection against oxidative damage and attenuates inflammation in an allergic asthma model. <i>Journal of Cellular Physiology</i> , 2020 , 235, 1838-1849	7	10
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109	Evidence that AKT and GSK-3 β pathway are involved in acute hyperhomocysteinemia. <i>International Journal of Developmental Neuroscience</i> , 2012 , 30, 369-74	2.7	9
108	Physical exercise reverses cognitive impairment in rats subjected to experimental hyperprolinemia. <i>Neurochemical Research</i> , 2011 , 36, 2306-15	4.6	9
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96	Effect of hypoxanthine, antioxidants and allopurinol on cholinesterase activities in rats. <i>Journal of Neural Transmission</i> , 2013 , 120, 1359-67	4.3	8
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91	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
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87	Disruption of Energy Transfer and Redox Status by Sulfite in Hippocampus, Striatum, and Cerebellum of Developing Rats. <i>Neurotoxicity Research</i> , 2017 , 32, 264-275	4.3	7

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50	In vitro homocysteine inhibits platelet Na ⁺ ,K ⁺ -ATPase and serum butyrylcholinesterase activities of young rats. <i>Metabolic Brain Disease</i> , 2003 , 18, 273-80	3.9	5
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47	Hypermethioninemia induces memory deficits and morphological changes in hippocampus of young rats: implications on pathogenesis. <i>Amino Acids</i> , 2020 , 52, 371-385	3.5	5
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42	Vitamin D Supplementation Reverses DNA Damage and Telomeres Shortening Caused by Ovariectomy in Hippocampus of Wistar Rats. <i>Neurotoxicity Research</i> , 2018 , 34, 538-546	4.3	4
41	Cross-talk between guanidinoacetate neurotoxicity, memory and possible neuroprotective role of creatine. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 165529	6.9	4
40	Long-term proline exposure alters nucleotide catabolism and ectonucleotidase gene expression in zebrafish brain. <i>Metabolic Brain Disease</i> , 2012 , 27, 541-9	3.9	4
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31	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
30	Experimental Lung Injury Promotes Changes in Oxidative/Nitrative Status and Inflammatory Markers in Cerebral Cortex of Rats. <i>Molecular Neurobiology</i> , 2015 , 52, 1590-1600	6.2	3
29	Neonatal environmental intervention alters the vulnerability to the metabolic effects of chronic palatable diet exposure in adulthood. <i>Nutritional Neuroscience</i> , 2014 , 17, 127-37	3.6	3
28	Protective effect of antioxidants on cerebrum oxidative damage caused by arginine on pyruvate kinase activity. <i>Metabolic Brain Disease</i> , 2009 , 24, 469-79	3.9	3
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23	Expression of matrix metalloproteinases in patients with bipolar disorder. <i>Revista Brasileira De Psiquiatria</i> , 2013 , 35, 375-9	2.6	2
22	Inhibition of CO(2) production from glucose by arginine in brain slices of rats. <i>Metabolic Brain Disease</i> , 2007 , 22, 145-55	3.9	2
21	Effects in vitro of guanidinoacetate on adenine nucleotide hydrolysis and acetylcholinesterase activity in tissues from adult rats. <i>Neurochemical Research</i> , 2008 , 33, 1129-37	4.6	2
20	Methylphenidate alters Akt-mTOR signaling in rat pheochromocytoma cells. <i>International Journal of Developmental Neuroscience</i> , 2019 , 73, 10-18	2.7	2
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