Angela T S Wyse

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	NTPDase and 5'â€nucleotidase activities in physiological and disease conditions: New perspectives for human health. BioFactors, 2007, 31, 77-98.	5.4	202
2	The role of oxidative damage in the neuropathology of organic acidurias: Insights from animal studies. Journal of Inherited Metabolic Disease, 2004, 27, 427-448.	3.6	157
3	Differential Macrophage Activation Alters the Expression Profile of NTPDase and Ecto-5′-Nucleotidase. PLoS ONE, 2012, 7, e31205.	2.5	149
4	Preconditioning prevents the inhibition of Na+,K+-ATPase activity after brain ischemia. Neurochemical Research, 2000, 25, 971-975.	3.3	138
5	Methylmalonate administration decreases Na+,K+-ATPase activity in cerebral cortex of rats. NeuroReport, 2000, 11, 2331-2334.	1.2	119
6	Inhibition of the mitochondrial respiratory chain complex activities in rat cerebral cortex by methylmalonic acid. Neurochemistry International, 2002, 40, 593-601.	3.8	103
7	Reduction of hippocampal Na+, K+-ATPase activity in rats subjected to an experimental model of depression. Neurochemical Research, 2003, 28, 1339-1344.	3.3	98
8	Inhibition of Na(+),K(+)-ATPase activity in hippocampus of rats subjected to acute administration of homocysteine is prevented by vitamins E and C treatment. Neurochemical Research, 2002, 27, 1685-1689.	3.3	96
9	Chronic hyperhomocysteinemia alters antioxidant defenses and increases DNA damage in brain and blood of rats: Protective effect of folic acid. Neurochemistry International, 2009, 54, 7-13.	3.8	88
10	In vitro effect of homocysteine on some parameters of oxidative stress in rat hippocampus. Metabolic Brain Disease, 2003, 18, 147-154.	2.9	84
11	Mitochondrial energy metabolism is markedly impaired by d-2-hydroxyglutaric acid in rat tissues. Molecular Genetics and Metabolism, 2005, 86, 188-199.	1.1	84
12	Reduction of Na(+),K(+)-ATPase activity in hippocampus of rats subjected to chemically induced hyperhomocysteinemia. Neurochemical Research, 2002, 27, 1593-1598.	3.3	82
13	Resveratrol prevents oxidative stress and inhibition of Na+K+-ATPase activity induced by transient global cerebral ischemia in rats. Journal of Nutritional Biochemistry, 2011, 22, 921-928.	4.2	80
14	Glutaric acid induces oxidative stress in brain of young rats. Brain Research, 2003, 964, 153-158.	2.2	79
15	Inhibition of brain energy metabolism by the α-keto acids accumulating in maple syrup urine disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2003, 1639, 232-238.	3.8	79
16	Inhibition of cytochrome c oxidase activity in rat cerebral cortex and human skeletal muscle by d-2-hydroxyglutaric acid in vitro. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2002, 1586, 81-91.	3.8	77
17	In vitro evidence for an antioxidant role of 3-hydroxykynurenine and 3-hydroxyanthranilic acid in the brain. Neurochemistry International, 2007, 50, 83-94.	3.8	77
18	Behavioral and neurochemical effects of proline. Metabolic Brain Disease, 2011, 26, 159-172.	2.9	73

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19	Methylphenidate affects memory, brain-derived neurotrophic factor immunocontent and brain acetylcholinesterase activity in the rat. Neurobiology of Learning and Memory, 2010, 94, 247-253.	1.9	69
20	Homocysteine Induces Oxidative–Nitrative Stress in Heart of Rats: Prevention by Folic Acid. Cardiovascular Toxicology, 2011, 11, 67-73.	2.7	69
21	Evidences that maternal swimming exercise improves antioxidant defenses and induces mitochondrial biogenesis in the brain of young Wistar rats. Neuroscience, 2013, 246, 28-39.	2.3	68
22	Oxidative stress mediated by NMDA, AMPA/KA channels in acute hippocampal slices: Neuroprotective effect of resveratrol. Toxicology in Vitro, 2014, 28, 544-551.	2.4	66
23	Chronic hyperhomocysteinemia provokes a memory deficit in rats in the Morris water maze task. Behavioural Brain Research, 2004, 153, 377-381.	2.2	64
24	Homocysteine induces oxidative stress, inflammatory infiltration, fibrosis and reduces glycogen/glycoprotein content in liver of rats. International Journal of Developmental Neuroscience, 2009, 27, 337-344.	1.6	63
25	Pretreatment with vitamins E and C prevent the impairment of memory caused by homocysteine administration in rats. Metabolic Brain Disease, 2002, 17, 211-217.	2.9	61
26	Reduction of large neutral amino acid levels in plasma and brain of hyperleucinemic rats. Neurochemistry International, 2001, 38, 529-537.	3.8	60
27	Experimental hyperphenylalaninemia provokes oxidative stress in rat brain. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2002, 1586, 344-352.	3.8	58
28	Arginine administration inhibits hippocampal Na+,K+-ATPase activity and impairs retention of an inhibitory avoidance task in rats. Brain Research, 2002, 951, 151-157.	2.2	56
29	Chronic treatment with glutaric acid induces partial tolerance to excitotoxicity in neuronal cultures from chick embryo telencephalons. Journal of Neuroscience Research, 2002, 68, 424-431.	2.9	53
30	Proline induces oxidative stress in cerebral cortex of rats. International Journal of Developmental Neuroscience, 2003, 21, 105-110.	1.6	53
31	Training in inhibitory avoidance causes a reduction of Na+,K+-ATPase activity in rat hippocampus. Physiology and Behavior, 2004, 80, 475-479.	2.1	53
32	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. Neurobiology of Learning and Memory, 2005, 84, 102-110.	1.9	53
33	Homocysteine induces cytoskeletal remodeling and production of reactive oxygen species in cultured cortical astrocytes. Brain Research, 2010, 1355, 151-164.	2.2	53
34	Inhibition of Na+,K+-ATPase from rat brain cortex by propionic acid. NeuroReport, 1998, 9, 1719-1721.	1.2	52
35	Vitamins E and C pretreatment prevents ovariectomy-induced memory deficits in water maze. Neurobiology of Learning and Memory, 2005, 84, 192-199.	1.9	52
36	Inhibition of Na+, K+-ATPase activity by the metabolites accumulating in homocystinuria. Metabolic Brain Disease, 2002, 17, 83-91.	2.9	49

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37	Guanidinoacetate Decreases Antioxidant Defenses and Total Protein Sulfhydryl Content in Striatum of Rats. Neurochemical Research, 2008, 33, 1804-1810.	3.3	48
38	Neonatal hypoxia–ischemia induces sex-related changes in rat brain mitochondria. Mitochondrion, 2012, 12, 271-279.	3.4	48
39	Differential inhibitory effects of methylmalonic acid on respiratory chain complex activities in rat tissues. International Journal of Developmental Neuroscience, 2006, 24, 45-52.	1.6	47
40	Inhibition of rat brain Na+, K+-ATPase activity induced by homocysteine is probably mediated by oxidative stress. Neurochemical Research, 2001, 26, 1195-1200.	3.3	46
41	Brain energy metabolism is compromised by the metabolites accumulating in homocystinuria. Neurochemistry International, 2003, 43, 597-602.	3.8	45
42	Quinolinic acid reduces the antioxidant defenses in cerebral cortex of young rats. International Journal of Developmental Neuroscience, 2005, 23, 695-701.	1.6	45
43	Guanidino compounds inhibit acetylcholinesterase and butyrylcholinesterase activities: Effect neuroprotector of vitamins E plus C. International Journal of Developmental Neuroscience, 2010, 28, 465-473.	1.6	45
44	Mild Hyperhomocysteinemia Increases Brain Acetylcholinesterase and Proinflammatory Cytokine Levels in Different Tissues. Molecular Neurobiology, 2014, 50, 589-596.	4.0	45
45	Methionine alters Na + ,K + â€ATPase activity, lipid peroxidation and nonenzymatic antioxidant defenses in rat hippocampus. International Journal of Developmental Neuroscience, 2005, 23, 651-656.	1.6	44
46	Arginine Administration Decreases Cerebral Cortex Acetylcholinesterase and Serum Butyrylcholinesterase Probably by Oxidative Stress Induction. Neurochemical Research, 2004, 29, 385-389.	3.3	42
47	Inhibition of creatine kinase activity from rat cerebral cortex by -2-hydroxyglutaric acid in vitro. Neurochemistry International, 2004, 44, 45-52.	3.8	42
48	γ-Hydroxybutyric acid induces oxidative stress in cerebral cortex of young rats. Neurochemistry International, 2007, 50, 564-570.	3.8	42
49	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. Biochimica Et Biophysica Acta - Molecular Basis of Disease 2017 1863 2135-2148	3.8	42
50	Nitric oxide synthase inhibition by L-NAME prevents the decrease of Na+,K+-ATPase activity in midbrain of rats subjected to arginine administration. Neurochemical Research, 2001, 26, 515-520.	3.3	41
51	Antioxidant Effect of Cysteamine in Brain Cortex of Young Rats. Neurochemical Research, 2008, 33, 737-744.	3.3	41
52	Chronic Hyperhomocysteinemia Increases Inflammatory Markers in Hippocampus and Serum of Rats. Neurochemical Research, 2012, 37, 1660-1669.	3.3	41
53	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. International Journal of Developmental Neuroscience, 2016, 50, 16-25.	1.6	41
54	P2X7 Receptor Signaling Contributes to Sepsis-Associated Brain Dysfunction. Molecular Neurobiology, 2017, 54, 6459-6470.	4.0	41

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55	Autophagy induces eosinophil extracellular traps formation and allergic airway inflammation in a murine asthma model. Journal of Cellular Physiology, 2020, 235, 267-280.	4.1	41
56	Inhibition of creatine kinase activity in vitro by ethylmalonic acid in cerebral cortex of young rats. Neurochemical Research, 2002, 27, 1633-1639.	3.3	40
57	Inhibition of mitochondrial creatine kinase activity from rat cerebral cortex by methylmalonic acid. Neurochemistry International, 2004, 45, 661-667.	3.8	40
58	Concurrent folate treatment prevents Na + ,K + â€ATPase activity inhibition and memory impairments caused by chronic hyperhomocysteinemia during rat development. International Journal of Developmental Neuroscience, 2007, 25, 545-552.	1.6	40
59	Treadmill running prevents age-related memory deficit and alters neurotrophic factors and oxidative damage in the hippocampus of Wistar rats. Behavioural Brain Research, 2017, 334, 78-85.	2.2	40
60	Neurotoxicity of Methylmercury in Isolated Astrocytes and Neurons: the Cytoskeleton as a Main Target. Molecular Neurobiology, 2017, 54, 5752-5767.	4.0	40
61	Kynurenic Acid Restores Nrf2 Levels and Prevents Quinolinic Acid-Induced Toxicity in Rat Striatal Slices. Molecular Neurobiology, 2018, 55, 8538-8549.	4.0	40
62	In vitro inhibition of Na+,K+-ATPase activity from rat cerebral cortex by guanidino compounds accumulating in hyperargininemia. Brain Research, 1999, 838, 78-84.	2.2	39
63	Increased inflammatory markers in brain and blood of rats subjected to acute homocysteine administration. Metabolic Brain Disease, 2010, 25, 199-206.	2.9	39
64	Methylphenidate induces lipid and protein damage in prefrontal cortex, but not in cerebellum, striatum and hippocampus of juvenile rats. Metabolic Brain Disease, 2012, 27, 605-612.	2.9	39
65	Reactive oxygen species are involved in eosinophil extracellular traps release and in airway inflammation in asthma. Journal of Cellular Physiology, 2019, 234, 23633-23646.	4.1	39
66	Impairment of energy metabolism in hippocampus of rats subjected to chemically-induced hyperhomocysteinemia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2003, 1637, 187-192.	3.8	38
67	Experimental evidence of oxidative stress in plasma of homocystinuric patients: A possible role for homocysteine. Molecular Genetics and Metabolism, 2011, 104, 112-117.	1.1	38
68	Behavioral changes induced by long-term proline exposure are reversed by antipsychotics in zebrafish. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2012, 36, 258-263.	4.8	38
69	Are the consequences of neonatal hypoxia–ischemia dependent on animals' sex and brain lateralization?. Brain Research, 2013, 1507, 105-114.	2.2	38
70	Creatine as a Neuroprotector: an Actor that Can Play Many Parts. Neurotoxicity Research, 2019, 36, 411-423.	2.7	38
71	Inhibition of the mitochondrial respiratory chain by phenylalanine in rat cerebral cortex. Neurochemical Research, 2002, 27, 353-357.	3.3	37
72	Intrastriatal Administration of Guanidinoacetate Inhibits Na+, K+-ATPase and Creatine Kinase Activities in Rat Striatum. Metabolic Brain Disease, 2006, 21, 39-48.	2.9	37

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73	Early biochemical effects after unilateral hypoxia–ischemia in the immature rat brain. International Journal of Developmental Neuroscience, 2011, 29, 115-120.	1.6	37
74	Development of an animal model for chronic mild hyperhomocysteinemia and its response to oxidative damage. International Journal of Developmental Neuroscience, 2011, 29, 693-699.	1.6	37
75	Proline reduces acetylcholinesterase activity in cerebral cortex of rats. Metabolic Brain Disease, 2003, 18, 79-86.	2.9	36
76	Evidence for a synergistic action of glutaric and 3â€hydroxyglutaric acids disturbing rat brain energy metabolism. International Journal of Developmental Neuroscience, 2007, 25, 391-398.	1.6	36
77	Na+, K+ ATPase Activity Is Reduced in Amygdala of Rats with Chronic Stress-Induced Anxiety-Like Behavior. Neurochemical Research, 2010, 35, 1787-1795.	3.3	36
78	Purinergic signaling in the modulation of redox biology. Redox Biology, 2021, 47, 102137.	9.0	36
79	Creatine kinase activity from rat brain is inhibited by branched-chain amino acids in vitro. Neurochemical Research, 2003, 28, 675-679.	3.3	35
80	Inhibition of energy metabolism in cerebral cortex of young rats by the medium-chain fatty acids accumulating in MCAD deficiency. Brain Research, 2004, 1030, 141-151.	2.2	35
81	In vivo and in vitro effects of homocysteine on Na ⁺ ,K ⁺ â€ATPase activity in parietal, prefrontal and cingulate cortex of young rats. International Journal of Developmental Neuroscience, 2004, 22, 185-190.	1.6	35
82	Induction of oxidative stress by the metabolites accumulating in 3-methylglutaconic aciduria in cerebral cortex of young rats. Life Sciences, 2008, 82, 652-662.	4.3	35
83	Acute homocysteine administration impairs memory consolidation on inhibitory avoidance task and decreases hippocampal brain-derived neurotrophic factor immunocontent: prevention by folic acid treatment. Neuroscience, 2009, 163, 1039-1045.	2.3	35
84	Homocysteine alters glutamate uptake and Na+,K+-ATPase activity and oxidative status in rats hippocampus: protection by vitamin C. Metabolic Brain Disease, 2011, 26, 61-67.	2.9	35
85	Chronic Variable Stress Alters Inflammatory and Cholinergic Parameters in Hippocampus of Rats. Neurochemical Research, 2011, 36, 487-493.	3.3	35
86	Characterization of the inhibition of pyruvate kinase caused by phenylalanine and phenylpyruvate in rat brain cortex. Brain Research, 2003, 968, 199-205.	2.2	34
87	5-Oxoproline Reduces Non-Enzymatic Antioxidant Defenses in vitro in Rat Brain. Metabolic Brain Disease, 2007, 22, 51-65.	2.9	34
88	Chronic variable stress induces oxidative stress and decreases butyrylcholinesterase activity in blood of rats. Journal of Neural Transmission, 2010, 117, 1067-1076.	2.8	34
89	Chronic variable stress impairs energy metabolism in prefrontal cortex and hippocampus of rats: prevention by chronic antioxidant treatment. Metabolic Brain Disease, 2010, 25, 169-176.	2.9	34
90	The Beneficial Effects of Treadmill Step Training on Activity-Dependent Synaptic and Cellular Plasticity Markers After Complete Spinal Cord Injury. Neurochemical Research, 2011, 36, 1046-1055.	3.3	34

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91	Antioxidants Prevent Memory Deficits Provoked by Chronic Variable Stress in Rats. Neurochemical Research, 2011, 36, 2373-2380.	3.3	34
92	In vivo and in vitro effects of proline on some parameters of oxidative stress in rat brain. Brain Research, 2003, 991, 180-186.	2.2	33
93	Chemically induced model of hypermethioninemia in rats. Journal of Neuroscience Methods, 2007, 160, 1-4.	2.5	32
94	Tyrosine promotes oxidative stress in cerebral cortex of young rats. International Journal of Developmental Neuroscience, 2008, 26, 551-559.	1.6	32
95	Glutaric Acid Administration Impairs Energy Metabolism in Midbrain and Skeletal Muscle of Young Rats. Neurochemical Research, 2005, 30, 1123-1131.	3.3	31
96	Evidence that glutaric acid reduces glutamate uptake by cerebral cortex of infant rats. Life Sciences, 2007, 81, 1668-1676.	4.3	31
97	Homocysteine activates calciumâ€mediated cell signaling mechanisms targeting the cytoskeleton in rat hippocampus. International Journal of Developmental Neuroscience, 2008, 26, 447-455.	1.6	31
98	Acute administration of 5-oxoproline induces oxidative damage to lipids and proteins and impairs antioxidant defenses in cerebral cortex and cerebellum of young rats. Metabolic Brain Disease, 2010, 25, 145-154.	2.9	31
99	Homocysteine induces energy imbalance in rat skeletal muscle: Is creatine a protector?. Cell Biochemistry and Function, 2013, 31, 575-584.	2.9	31
100	Sulfite disrupts brain mitochondrial energy homeostasis and induces mitochondrial permeability transition pore opening via thiol group modification. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 1413-1422.	3.8	31
101	Mechanistic basis of hypermethioninemia. Amino Acids, 2016, 48, 2479-2489.	2.7	31
102	α-Tocopherol and ascorbic acid prevent memory deficits provoked by chronic hyperprolinemia in rats. Behavioural Brain Research, 2006, 168, 185-189.	2.2	30
103	Promotion of oxidative stress by l-tryptophan in cerebral cortex of rats. Neurochemistry International, 2006, 49, 87-93.	3.8	30
104	Tyrosine administration decreases glutathione and stimulates lipid and protein oxidation in rat cerebral cortex. Metabolic Brain Disease, 2009, 24, 415-425.	2.9	30
105	Running exercise effects on spatial and avoidance tasks in ovariectomized rats. Neurobiology of Learning and Memory, 2010, 94, 312-317.	1.9	30
106	l â€⊋â€Hydroxyglutaric acid inhibits mitochondrial creatine kinase activity from cerebellum of developing rats. International Journal of Developmental Neuroscience, 2003, 21, 217-224.	1.6	29
107	Kynurenines Impair Energy Metabolism in Rat Cerebral Cortex. Cellular and Molecular Neurobiology, 2007, 27, 147-160.	3.3	29
108	Effects of 1,4-butanediol administration on oxidative stress in rat brain: Study of the neurotoxicity of Î ³ -hydroxybutyric acid in vivo. Metabolic Brain Disease, 2009, 24, 271-282.	2.9	29

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109	Long-Term Methionine Exposure Induces Memory Impairment on Inhibitory Avoidance Task and Alters Acetylcholinesterase Activity and Expression in Zebrafish (Danio rerio). Neurochemical Research, 2012, 37, 1545-1553.	3.3	29
110	Inhibition of Na+,K+-ATPase activity from rat hippocampus by proline. Neurochemical Research, 2001, 26, 1321-1326.	3.3	28
111	In vitro stimulation of oxidative stress in cerebral cortex of rats by the guanidino compounds accumulating in hyperargininemia. Brain Research, 2001, 923, 50-57.	2.2	28
112	Ethylmalonic acid inhibits mitochondrial creatine kinase activity from cerebral cortex of young rats in vitro. Neurochemical Research, 2003, 28, 771-777.	3.3	28
113	Ascorbic acid prevents water maze behavioral deficits caused by early postnatal methylmalonic acid administration in the rat. Brain Research, 2003, 976, 234-242.	2.2	28
114	Evidence that oxidative stress is involved in the inhibitory effect of proline on Na + ,K + â€ATPase activity in synaptic plasma membrane of rat hippocampus. International Journal of Developmental Neuroscience, 2003, 21, 303-307.	1.6	28
115	Protective effect of green tea extract against proline-induced oxidative damage in the rat kidney. Biomedicine and Pharmacotherapy, 2016, 83, 1422-1427.	5.6	28
116	Exercise effects on activities of Na+,K+-ATPase, acetylcholinesterase and adenine nucleotides hydrolysis in ovariectomized rats. Brain Research, 2009, 1302, 248-255.	2.2	27
117	Reduction of energy metabolism in rat hippocampus by arginine administration. Brain Research, 2003, 983, 58-63.	2.2	26
118	Hyperphenylalaninemia reduces creatine kinase activity in the cerebral cortex of rats. International Journal of Developmental Neuroscience, 2003, 21, 111-116.	1.6	26
119	Reduction of Butyrylcholinesterase Activity in Rat Serum Subjected to Hyperhomocysteinemia. Metabolic Brain Disease, 2005, 20, 97-103.	2.9	26
120	Physical exercise reverses glutamate uptake and oxidative stress effects of chronic homocysteine administration in the rat. International Journal of Developmental Neuroscience, 2012, 30, 69-74.	1.6	26
121	Isolation during the prepubertal period associated with chronic access to palatable diets: Effects on plasma lipid profile and liver oxidative stress. Physiology and Behavior, 2014, 124, 23-32.	2.1	26
122	Homocysteine Induces Glial Reactivity in Adult Rat Astrocyte Cultures. Molecular Neurobiology, 2018, 55, 1966-1976.	4.0	26
123	Chronic Hyperprolinemia Provokes a Memory Deficit in the Morris Water Maze Task. Metabolic Brain Disease, 2005, 20, 73-80.	2.9	25
124	Glutaric acid moderately compromises energy metabolism in rat brain. International Journal of Developmental Neuroscience, 2005, 23, 687-693.	1.6	25
125	Protective effect of nitric oxide synthase inhibition or antioxidants on brain oxidative damage caused by intracerebroventricular arginine administration. Brain Research, 2008, 1193, 120-127.	2.2	25
126	Contextual Fear Conditioning in Maternal Separated Rats: The Amygdala as a Site for Alterations. Neurochemical Research, 2014, 39, 384-393.	3.3	25

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127	Chronic mild Hyperhomocysteinemia impairs energy metabolism, promotes DNA damage and induces a Nrf2 response to oxidative stress in rats brain. Cellular and Molecular Neurobiology, 2019, 39, 687-700.	3.3	25
128	Alanine prevents the decrease of Na+,K+-ATPase activity in experimental phenylketonuria. Metabolic Brain Disease, 1999, 14, 95-101.	2.9	24
129	Brain Na+,K(+)-ATPase inhibition induced by arginine administration is prevented by vitamins E and C. Neurochemical Research, 2003, 28, 825-829.	3.3	24
130	Ovariectomy increases Na+, K+-ATPase, acetylcholinesterase and catalase in rat hippocampus. Molecular and Cellular Endocrinology, 2005, 236, 9-16.	3.2	24
131	In vitro effect of quinolinic acid on energy metabolism in brain of young rats. Neuroscience Research, 2007, 57, 277-288.	1.9	24
132	Sulfite increases lipoperoxidation and decreases the activity of catalase in brain of rats. Metabolic Brain Disease, 2008, 23, 123-132.	2.9	24
133	Hypermethioninemia provokes oxidative damage and histological changes in liver of rats. Biochimie, 2009, 91, 961-968.	2.6	24
134	Chronic hyperhomocysteinemia induces oxidative damage in the rat lung. Molecular and Cellular Biochemistry, 2011, 358, 153-160.	3.1	24
135	Folic Acid Prevents Behavioral Impairment and Na+,K+-ATPase Inhibition Caused by Neonatal Hypoxia–Ischemia. Neurochemical Research, 2012, 37, 1624-1630.	3.3	24
136	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. Brain Research, 2001, 920, 194-201.	2.2	23
137	Alanine prevents the inhibition of pyruvate kinase activity caused by tryptophan in cerebral cortex of rats. Metabolic Brain Disease, 2003, 18, 129-137.	2.9	23
138	Inhibition of Na + , K + â€ATPase activity in rat striatum by the metabolites accumulated in Lesch–Nyhan disease. International Journal of Developmental Neuroscience, 2004, 22, 11-17.	1.6	23
139	Inhibition of the Electron Transport Chain and Creatine Kinase Activity by Ethylmalonic Acid in Human Skeletal Muscle. Metabolic Brain Disease, 2006, 21, 11-19.	2.9	23
140	Hypermethioninemia Increases Cerebral Acetylcholinesterase Activity and Impairs Memory in Rats. Neurochemical Research, 2007, 32, 1868-1874.	3.3	23
141	Association Between Na+,K+-ATPase Activity and the Vulnerability/Resilience to Mood Disorders induced by Early Life Experience. Neurochemical Research, 2011, 36, 2075-2082.	3.3	23
142	Development of an animal model for gestational hypermethioninemia in rat and its effect on brain Na+,K+-ATPase/Mg2+-ATPase activity and oxidative status of the offspring. Metabolic Brain Disease, 2014, 29, 153-160.	2.9	23
143	Ammonia impairs glutamatergic communication in astroglial cells: protective role of resveratrol. Toxicology in Vitro, 2015, 29, 2022-2029.	2.4	23
144	Quinolinic acid neurotoxicity: Differential roles of astrocytes and microglia via FGF-2-mediated signaling in redox-linked cytoskeletal changes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 3001-3014.	4.1	23

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145	1,25â€Ðihydroxyvitamin D3 exerts neuroprotective effects in an <i>ex vivo</i> model of mild hyperhomocysteinemia. International Journal of Developmental Neuroscience, 2016, 48, 71-79.	1.6	23
146	Effect of leucine administration on creatine kinase activity in rat brain. Metabolic Brain Disease, 2003, 18, 17-25.	2.9	22
147	Effect of hyperprolinemia on acetylcholinesterase and butyrylcholinesterase activities in rat. Amino Acids, 2005, 28, 305-308.	2.7	22
148	N â€Acetylaspartic acid promotes oxidative stress in cerebral cortex of rats. International Journal of Developmental Neuroscience, 2007, 25, 317-324.	1.6	22
149	Intrastriatal Hypoxanthine Reduces Na+,K+-ATPase Activity and Induces Oxidative Stress in the Rats. Metabolic Brain Disease, 2007, 22, 1-11.	2.9	22
150	Na+,K+-ATPase activity in an animal model of mania. Journal of Neural Transmission, 2009, 116, 431-436.	2.8	22
151	Coumestrol treatment prevents Na ⁺ , K ⁺ -ATPase inhibition and affords histological neuroprotection to male rats receiving cerebral global ischemia. Neurological Research, 2014, 36, 198-206.	1.3	22
152	The Role of Oxidative Stress and Bioenergetic Dysfunction in Sulfite Oxidase Deficiency: Insights from Animal Models. Neurotoxicity Research, 2019, 35, 484-494.	2.7	22
153	L-pyroglutamic acid inhibits energy production and lipid synthesis in cerebral cortex of young rats in vitro. Neurochemical Research, 2001, 26, 1277-1283.	3.3	21
154	Inhibition of Na + , K + â€ATPase activity in rat striatum by guanidinoacetate. International Journal of Developmental Neuroscience, 2003, 21, 183-189.	1.6	21
155	Evaluation of the mechanism underlying the inhibitory effect of guanidinoacetate on brain Na + , K + â€ATPase activity. International Journal of Developmental Neuroscience, 2004, 22, 191-196.	1.6	21
156	Mesenchymal Stem Cell-Conditioned Medium Triggers Neuroinflammation and Reactive Species Generation in Organotypic Cultures of Rat Hippocampus. Stem Cells and Development, 2011, 20, 1171-1181.	2.1	21
157	Hypoxanthine induces oxidative stress in kidney of rats: protective effect of vitamins E plus C and allopurinol. Cell Biochemistry and Function, 2014, 32, 387-394.	2.9	21
158	Methylphenidate Causes Behavioral Impairments and Neuron and Astrocyte Loss in the Hippocampus of Juvenile Rats. Molecular Neurobiology, 2017, 54, 4201-4216.	4.0	21
159	Proline reduces creatine kinase activity in the brain cortex of rats. Neurochemical Research, 2003, 28, 1175-1180.	3.3	20
160	In vitro effects of l â€arginine and guanidino compounds on NTPDase1 and 5′â€nucleotidase activities from rat brain synaptosomes. International Journal of Developmental Neuroscience, 2003, 21, 75-82.	1.6	20
161	Proline promotes decrease in glutamate uptake in slices of cerebral cortex and hippocampus of rats. Life Sciences, 2007, 81, 1645-1650.	4.3	20
162	Role of antioxidants on Na+,K+-ATPase activity and gene expression in cerebral cortex of hyperprolinemic rats. Metabolic Brain Disease, 2011, 26, 141-147.	2.9	20

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163	Isolation Stress During the Prepubertal Period in Rats Induces Long-Lasting Neurochemical Changes in the Prefrontal Cortex. Neurochemical Research, 2012, 37, 1063-1073.	3.3	20
164	Hypoxanthine Induces Neuroenergetic Impairment and Cell Death in Striatum of Young Adult Wistar Rats. Molecular Neurobiology, 2017, 55, 4098-4106.	4.0	20
165	Effects of previous physical exercise to chronic stress on longâ€term aversive memory and oxidative stress in amygdala and hippocampus of rats. International Journal of Developmental Neuroscience, 2017, 56, 58-67.	1.6	20
166	Acute administration of methionine and/or methionine sulfoxide impairs redox status and induces apoptosis in rat cerebral cortex. Metabolic Brain Disease, 2017, 32, 1693-1703.	2.9	20
167	On the mechanism of the inhibition of Na + , K + â€ATPase activity caused by homocysteine. International Journal of Developmental Neuroscience, 2002, 20, 77-81.	1.6	19
168	In vitro effects of d-2-hydroxyglutaric acid on glutamate binding, uptake and release in cerebral cortex of rats. Journal of the Neurological Sciences, 2004, 217, 189-194.	0.6	19
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