

Angela T S Wyse

List of Publications by Year in descending order

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356
papers

9,004
citations

57631

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docs citations

360
times ranked

8417
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | NTPDase and 5'â€nucleotidase activities in physiological and disease conditions: New perspectives for human health. <i>BioFactors</i> , 2007, 31, 77-98. | 2.6 | 202 |
| 2 | The role of oxidative damage in the neuropathology of organic acidurias: Insights from animal studies. <i>Journal of Inherited Metabolic Disease</i> , 2004, 27, 427-448. | 1.7 | 157 |
| 3 | Differential Macrophage Activation Alters the Expression Profile of NTPDase and Ecto-5â€-Nucleotidase. <i>PLoS ONE</i> , 2012, 7, e31205. | 1.1 | 149 |
| 4 | Preconditioning prevents the inhibition of Na ⁺ ,K ⁺ -ATPase activity after brain ischemia. <i>Neurochemical Research</i> , 2000, 25, 971-975. | 1.6 | 138 |
| 5 | Methylmalonate administration decreases Na ⁺ ,K ⁺ -ATPase activity in cerebral cortex of rats. <i>NeuroReport</i> , 2000, 11, 2331-2334. | 0.6 | 119 |
| 6 | Inhibition of the mitochondrial respiratory chain complex activities in rat cerebral cortex by methylmalonic acid. <i>Neurochemistry International</i> , 2002, 40, 593-601. | 1.9 | 103 |
| 7 | Reduction of hippocampal Na ⁺ , K ⁺ -ATPase activity in rats subjected to an experimental model of depression. <i>Neurochemical Research</i> , 2003, 28, 1339-1344. | 1.6 | 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. <i>Neurochemical Research</i> , 2002, 27, 1685-1689. | 1.6 | 96 |
| 9 | 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. | 1.9 | 88 |
| 10 | In vitro effect of homocysteine on some parameters of oxidative stress in rat hippocampus. <i>Metabolic Brain Disease</i> , 2003, 18, 147-154. | 1.4 | 84 |
| 11 | Mitochondrial energy metabolism is markedly impaired by d-2-hydroxyglutaric acid in rat tissues. <i>Molecular Genetics and Metabolism</i> , 2005, 86, 188-199. | 0.5 | 84 |
| 12 | Reduction of Na ⁽⁺⁾ ,K ⁽⁺⁾ -ATPase activity in hippocampus of rats subjected to chemically induced hyperhomocysteinemia. <i>Neurochemical Research</i> , 2002, 27, 1593-1598. | 1.6 | 82 |
| 13 | 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, 921-928. | 1.9 | 80 |
| 14 | Glutaric acid induces oxidative stress in brain of young rats. <i>Brain Research</i> , 2003, 964, 153-158. | 1.1 | 79 |
| 15 | Inhibition of brain energy metabolism by the ð±-keto acids accumulating in maple syrup urine disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2003, 1639, 232-238. | 1.8 | 79 |
| 16 | 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. | 1.8 | 77 |
| 17 | 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. | 1.9 | 77 |
| 18 | Behavioral and neurochemical effects of proline. <i>Metabolic Brain Disease</i> , 2011, 26, 159-172. | 1.4 | 73 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Methylphenidate affects memory, brain-derived neurotrophic factor immunocontent and brain acetylcholinesterase activity in the rat. <i>Neurobiology of Learning and Memory</i> , 2010, 94, 247-253. | 1.0 | 69 |
| 20 | Homocysteine Induces Oxidative and Nitrosative Stress in Heart of Rats: Prevention by Folic Acid. <i>Cardiovascular Toxicology</i> , 2011, 11, 67-73. | 1.1 | 69 |
| 21 | 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. | 1.1 | 68 |
| 22 | Oxidative stress mediated by NMDA, AMPA/K _A channels in acute hippocampal slices: Neuroprotective effect of resveratrol. <i>Toxicology in Vitro</i> , 2014, 28, 544-551. | 1.1 | 66 |
| 23 | Chronic hyperhomocysteinemia provokes a memory deficit in rats in the Morris water maze task. <i>Behavioural Brain Research</i> , 2004, 153, 377-381. | 1.2 | 64 |
| 24 | 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, 337-344. | 0.7 | 63 |
| 25 | Pretreatment with vitamins E and C prevent the impairment of memory caused by homocysteine administration in rats. <i>Metabolic Brain Disease</i> , 2002, 17, 211-217. | 1.4 | 61 |
| 26 | Reduction of large neutral amino acid levels in plasma and brain of hyperleucinemic rats. <i>Neurochemistry International</i> , 2001, 38, 529-537. | 1.9 | 60 |
| 27 | Experimental hyperphenylalaninemia provokes oxidative stress in rat brain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002, 1586, 344-352. | 1.8 | 58 |
| 28 | Arginine administration inhibits hippocampal Na ⁺ ,K ⁺ -ATPase activity and impairs retention of an inhibitory avoidance task in rats. <i>Brain Research</i> , 2002, 951, 151-157. | 1.1 | 56 |
| 29 | 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, 424-431. | 1.3 | 53 |
| 30 | Proline induces oxidative stress in cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2003, 21, 105-110. | 0.7 | 53 |
| 31 | Training in inhibitory avoidance causes a reduction of Na ⁺ ,K ⁺ -ATPase activity in rat hippocampus. <i>Physiology and Behavior</i> , 2004, 80, 475-479. | 1.0 | 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. <i>Neurobiology of Learning and Memory</i> , 2005, 84, 102-110. | 1.0 | 53 |
| 33 | Homocysteine induces cytoskeletal remodeling and production of reactive oxygen species in cultured cortical astrocytes. <i>Brain Research</i> , 2010, 1355, 151-164. | 1.1 | 53 |
| 34 | Inhibition of Na ⁺ ,K ⁺ -ATPase from rat brain cortex by propionic acid. <i>NeuroReport</i> , 1998, 9, 1719-1721. | 0.6 | 52 |
| 35 | Vitamins E and C pretreatment prevents ovariectomy-induced memory deficits in water maze. <i>Neurobiology of Learning and Memory</i> , 2005, 84, 192-199. | 1.0 | 52 |
| 36 | Inhibition of Na ⁺ , K ⁺ -ATPase activity by the metabolites accumulating in homocystinuria. <i>Metabolic Brain Disease</i> , 2002, 17, 83-91. | 1.4 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Guanidinoacetate Decreases Antioxidant Defenses and Total Protein Sulfhydryl Content in Striatum of Rats. <i>Neurochemical Research</i> , 2008, 33, 1804-1810. | 1.6 | 48 |
| 38 | Neonatal hypoxia-induced ischemia induces sex-related changes in rat brain mitochondria. <i>Mitochondrion</i> , 2012, 12, 271-279. | 1.6 | 48 |
| 39 | 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. | 0.7 | 47 |
| 40 | Inhibition of rat brain Na ⁺ , K ⁺ -ATPase activity induced by homocysteine is probably mediated by oxidative stress. <i>Neurochemical Research</i> , 2001, 26, 1195-1200. | 1.6 | 46 |
| 41 | Brain energy metabolism is compromised by the metabolites accumulating in homocystinuria. <i>Neurochemistry International</i> , 2003, 43, 597-602. | 1.9 | 45 |
| 42 | Quinolinic acid reduces the antioxidant defenses in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2005, 23, 695-701. | 0.7 | 45 |
| 43 | Guanidino compounds inhibit acetylcholinesterase and butyrylcholinesterase activities: Effect neuroprotector of vitamins E plus C. <i>International Journal of Developmental Neuroscience</i> , 2010, 28, 465-473. | 0.7 | 45 |
| 44 | Mild Hyperhomocysteinemia Increases Brain Acetylcholinesterase and Proinflammatory Cytokine Levels in Different Tissues. <i>Molecular Neurobiology</i> , 2014, 50, 589-596. | 1.9 | 45 |
| 45 | Methionine alters Na ⁺ , K ⁺ -ATPase activity, lipid peroxidation and nonenzymatic antioxidant defenses in rat hippocampus. <i>International Journal of Developmental Neuroscience</i> , 2005, 23, 651-656. | 0.7 | 44 |
| 46 | Arginine Administration Decreases Cerebral Cortex Acetylcholinesterase and Serum Butyrylcholinesterase Probably by Oxidative Stress Induction. <i>Neurochemical Research</i> , 2004, 29, 385-389. | 1.6 | 42 |
| 47 | Inhibition of creatine kinase activity from rat cerebral cortex by -2-hydroxyglutaric acid in vitro. <i>Neurochemistry International</i> , 2004, 44, 45-52. | 1.9 | 42 |
| 48 | ¹³ C-Hydroxybutyric acid induces oxidative stress in cerebral cortex of young rats. <i>Neurochemistry International</i> , 2007, 50, 564-570. | 1.9 | 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. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2135-2148. | 1.8 | 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. <i>Neurochemical Research</i> , 2001, 26, 515-520. | 1.6 | 41 |
| 51 | Antioxidant Effect of Cysteamine in Brain Cortex of Young Rats. <i>Neurochemical Research</i> , 2008, 33, 737-744. | 1.6 | 41 |
| 52 | Chronic Hyperhomocysteinemia Increases Inflammatory Markers in Hippocampus and Serum of Rats. <i>Neurochemical Research</i> , 2012, 37, 1660-1669. | 1.6 | 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. <i>International Journal of Developmental Neuroscience</i> , 2016, 50, 16-25. | 0.7 | 41 |
| 54 | P2X7 Receptor Signaling Contributes to Sepsis-Associated Brain Dysfunction. <i>Molecular Neurobiology</i> , 2017, 54, 6459-6470. | 1.9 | 41 |

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|----|--|-----|-----------|
| 55 | 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. | 2.0 | 41 |
| 56 | Inhibition of creatine kinase activity in vitro by ethylmalonic acid in cerebral cortex of young rats. <i>Neurochemical Research</i> , 2002, 27, 1633-1639. | 1.6 | 40 |
| 57 | Inhibition of mitochondrial creatine kinase activity from rat cerebral cortex by methylmalonic acid. <i>Neurochemistry International</i> , 2004, 45, 661-667. | 1.9 | 40 |
| 58 | 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, 545-552. | 0.7 | 40 |
| 59 | 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. | 1.2 | 40 |
| 60 | Neurotoxicity of Methylmercury in Isolated Astrocytes and Neurons: the Cytoskeleton as a Main Target. <i>Molecular Neurobiology</i> , 2017, 54, 5752-5767. | 1.9 | 40 |
| 61 | Kynurenic Acid Restores Nrf2 Levels and Prevents Quinolinic Acid-Induced Toxicity in Rat Striatal Slices. <i>Molecular Neurobiology</i> , 2018, 55, 8538-8549. | 1.9 | 40 |
| 62 | 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. | 1.1 | 39 |
| 63 | Increased inflammatory markers in brain and blood of rats subjected to acute homocysteine administration. <i>Metabolic Brain Disease</i> , 2010, 25, 199-206. | 1.4 | 39 |
| 64 | 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, 605-612. | 1.4 | 39 |
| 65 | 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. | 2.0 | 39 |
| 66 | 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, 187-192. | 1.8 | 38 |
| 67 | Experimental evidence of oxidative stress in plasma of homocystinuric patients: A possible role for homocysteine. <i>Molecular Genetics and Metabolism</i> , 2011, 104, 112-117. | 0.5 | 38 |
| 68 | 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, 258-263. | 2.5 | 38 |
| 69 | Are the consequences of neonatal hypoxia-ischemia dependent on animals' sex and brain lateralization?. <i>Brain Research</i> , 2013, 1507, 105-114. | 1.1 | 38 |
| 70 | Creatine as a Neuroprotector: an Actor that Can Play Many Parts. <i>Neurotoxicity Research</i> , 2019, 36, 411-423. | 1.3 | 38 |
| 71 | Inhibition of the mitochondrial respiratory chain by phenylalanine in rat cerebral cortex. <i>Neurochemical Research</i> , 2002, 27, 353-357. | 1.6 | 37 |
| 72 | Intrastriatal Administration of Guanidinoacetate Inhibits Na ⁺ , K ⁺ -ATPase and Creatine Kinase Activities in Rat Striatum. <i>Metabolic Brain Disease</i> , 2006, 21, 39-48. | 1.4 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Early biochemical effects after unilateral hypoxia-ischemia in the immature rat brain. <i>International Journal of Developmental Neuroscience</i> , 2011, 29, 115-120. | 0.7 | 37 |
| 74 | Development of an animal model for chronic mild hyperhomocysteinemia and its response to oxidative damage. <i>International Journal of Developmental Neuroscience</i> , 2011, 29, 693-699. | 0.7 | 37 |
| 75 | Proline reduces acetylcholinesterase activity in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2003, 18, 79-86. | 1.4 | 36 |
| 76 | 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, 391-398. | 0.7 | 36 |
| 77 | Na ⁺ , K ⁺ ATPase Activity Is Reduced in Amygdala of Rats with Chronic Stress-Induced Anxiety-Like Behavior. <i>Neurochemical Research</i> , 2010, 35, 1787-1795. | 1.6 | 36 |
| 78 | Purinergic signaling in the modulation of redox biology. <i>Redox Biology</i> , 2021, 47, 102137. | 3.9 | 36 |
| 79 | Creatine kinase activity from rat brain is inhibited by branched-chain amino acids in vitro. <i>Neurochemical Research</i> , 2003, 28, 675-679. | 1.6 | 35 |
| 80 | 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, 141-151. | 1.1 | 35 |
| 81 | 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, 185-190. | 0.7 | 35 |
| 82 | Induction of oxidative stress by the metabolites accumulating in 3-methylglutaconic aciduria in cerebral cortex of young rats. <i>Life Sciences</i> , 2008, 82, 652-662. | 2.0 | 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. <i>Neuroscience</i> , 2009, 163, 1039-1045. | 1.1 | 35 |
| 84 | 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, 61-67. | 1.4 | 35 |
| 85 | Chronic Variable Stress Alters Inflammatory and Cholinergic Parameters in Hippocampus of Rats. <i>Neurochemical Research</i> , 2011, 36, 487-493. | 1.6 | 35 |
| 86 | Characterization of the inhibition of pyruvate kinase caused by phenylalanine and phenylpyruvate in rat brain cortex. <i>Brain Research</i> , 2003, 968, 199-205. | 1.1 | 34 |
| 87 | 5-Oxoproline Reduces Non-Enzymatic Antioxidant Defenses in vitro in Rat Brain. <i>Metabolic Brain Disease</i> , 2007, 22, 51-65. | 1.4 | 34 |
| 88 | Chronic variable stress induces oxidative stress and decreases butyrylcholinesterase activity in blood of rats. <i>Journal of Neural Transmission</i> , 2010, 117, 1067-1076. | 1.4 | 34 |
| 89 | 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, 169-176. | 1.4 | 34 |
| 90 | 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, 1046-1055. | 1.6 | 34 |

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|-----|---|-----|-----------|
| 91 | Antioxidants Prevent Memory Deficits Provoked by Chronic Variable Stress in Rats. <i>Neurochemical Research</i> , 2011, 36, 2373-2380. | 1.6 | 34 |
| 92 | In vivo and in vitro effects of proline on some parameters of oxidative stress in rat brain. <i>Brain Research</i> , 2003, 991, 180-186. | 1.1 | 33 |
| 93 | Chemically induced model of hypermethioninemia in rats. <i>Journal of Neuroscience Methods</i> , 2007, 160, 1-4. | 1.3 | 32 |
| 94 | Tyrosine promotes oxidative stress in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 551-559. | 0.7 | 32 |
| 95 | Glutaric Acid Administration Impairs Energy Metabolism in Midbrain and Skeletal Muscle of Young Rats. <i>Neurochemical Research</i> , 2005, 30, 1123-1131. | 1.6 | 31 |
| 96 | Evidence that glutaric acid reduces glutamate uptake by cerebral cortex of infant rats. <i>Life Sciences</i> , 2007, 81, 1668-1676. | 2.0 | 31 |
| 97 | Homocysteine activates calcium-mediated cell signaling mechanisms targeting the cytoskeleton in rat hippocampus. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 447-455. | 0.7 | 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. <i>Metabolic Brain Disease</i> , 2010, 25, 145-154. | 1.4 | 31 |
| 99 | Homocysteine induces energy imbalance in rat skeletal muscle: Is creatine a protector?. <i>Cell Biochemistry and Function</i> , 2013, 31, 575-584. | 1.4 | 31 |
| 100 | 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, 1413-1422. | 1.8 | 31 |
| 101 | Mechanistic basis of hypermethioninemia. <i>Amino Acids</i> , 2016, 48, 2479-2489. | 1.2 | 31 |
| 102 | Î±-Tocopherol and ascorbic acid prevent memory deficits provoked by chronic hyperprolinemia in rats. <i>Behavioural Brain Research</i> , 2006, 168, 185-189. | 1.2 | 30 |
| 103 | Promotion of oxidative stress by l-tryptophan in cerebral cortex of rats. <i>Neurochemistry International</i> , 2006, 49, 87-93. | 1.9 | 30 |
| 104 | Tyrosine administration decreases glutathione and stimulates lipid and protein oxidation in rat cerebral cortex. <i>Metabolic Brain Disease</i> , 2009, 24, 415-425. | 1.4 | 30 |
| 105 | Running exercise effects on spatial and avoidance tasks in ovariectomized rats. <i>Neurobiology of Learning and Memory</i> , 2010, 94, 312-317. | 1.0 | 30 |
| 106 | l-2-Hydroxyglutaric acid inhibits mitochondrial creatine kinase activity from cerebellum of developing rats. <i>International Journal of Developmental Neuroscience</i> , 2003, 21, 217-224. | 0.7 | 29 |
| 107 | Kynurenines Impair Energy Metabolism in Rat Cerebral Cortex. <i>Cellular and Molecular Neurobiology</i> , 2007, 27, 147-160. | 1.7 | 29 |
| 108 | Effects of 1,4-butanediol administration on oxidative stress in rat brain: Study of the neurotoxicity of Î³-hydroxybutyric acid in vivo. <i>Metabolic Brain Disease</i> , 2009, 24, 271-282. | 1.4 | 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 (<i>Danio rerio</i>). <i>Neurochemical Research</i> , 2012, 37, 1545-1553. | 1.6 | 29 |
| 110 | Inhibition of Na ⁺ ,K ⁺ -ATPase activity from rat hippocampus by proline. <i>Neurochemical Research</i> , 2001, 26, 1321-1326. | 1.6 | 28 |
| 111 | In vitro stimulation of oxidative stress in cerebral cortex of rats by the guanidino compounds accumulating in hyperargininemia. <i>Brain Research</i> , 2001, 923, 50-57. | 1.1 | 28 |
| 112 | Ethylmalonic acid inhibits mitochondrial creatine kinase activity from cerebral cortex of young rats in vitro. <i>Neurochemical Research</i> , 2003, 28, 771-777. | 1.6 | 28 |
| 113 | Ascorbic acid prevents water maze behavioral deficits caused by early postnatal methylmalonic acid administration in the rat. <i>Brain Research</i> , 2003, 976, 234-242. | 1.1 | 28 |
| 114 | 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, 303-307. | 0.7 | 28 |
| 115 | Protective effect of green tea extract against proline-induced oxidative damage in the rat kidney. <i>Biomedicine and Pharmacotherapy</i> , 2016, 83, 1422-1427. | 2.5 | 28 |
| 116 | Exercise effects on activities of Na ⁺ ,K ⁺ -ATPase, acetylcholinesterase and adenine nucleotides hydrolysis in ovariectomized rats. <i>Brain Research</i> , 2009, 1302, 248-255. | 1.1 | 27 |
| 117 | Reduction of energy metabolism in rat hippocampus by arginine administration. <i>Brain Research</i> , 2003, 983, 58-63. | 1.1 | 26 |
| 118 | Hyperphenylalaninemia reduces creatine kinase activity in the cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2003, 21, 111-116. | 0.7 | 26 |
| 119 | Reduction of Butyrylcholinesterase Activity in Rat Serum Subjected to Hyperhomocysteinemia. <i>Metabolic Brain Disease</i> , 2005, 20, 97-103. | 1.4 | 26 |
| 120 | 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. | 0.7 | 26 |
| 121 | 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. | 1.0 | 26 |
| 122 | Homocysteine Induces Glial Reactivity in Adult Rat Astrocyte Cultures. <i>Molecular Neurobiology</i> , 2018, 55, 1966-1976. | 1.9 | 26 |
| 123 | Chronic Hyperprolinemia Provokes a Memory Deficit in the Morris Water Maze Task. <i>Metabolic Brain Disease</i> , 2005, 20, 73-80. | 1.4 | 25 |
| 124 | Glutaric acid moderately compromises energy metabolism in rat brain. <i>International Journal of Developmental Neuroscience</i> , 2005, 23, 687-693. | 0.7 | 25 |
| 125 | Protective effect of nitric oxide synthase inhibition or antioxidants on brain oxidative damage caused by intracerebroventricular arginine administration. <i>Brain Research</i> , 2008, 1193, 120-127. | 1.1 | 25 |
| 126 | Contextual Fear Conditioning in Maternal Separated Rats: The Amygdala as a Site for Alterations. <i>Neurochemical Research</i> , 2014, 39, 384-393. | 1.6 | 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. <i>Cellular and Molecular Neurobiology</i> , 2019, 39, 687-700. | 1.7 | 25 |
| 128 | Alanine prevents the decrease of Na ⁺ ,K ⁺ -ATPase activity in experimental phenylketonuria. <i>Metabolic Brain Disease</i> , 1999, 14, 95-101. | 1.4 | 24 |
| 129 | Brain Na ⁺ ,K ⁽⁺⁾ -ATPase inhibition induced by arginine administration is prevented by vitamins E and C. <i>Neurochemical Research</i> , 2003, 28, 825-829. | 1.6 | 24 |
| 130 | Ovariectomy increases Na ⁺ , K ⁺ -ATPase, acetylcholinesterase and catalase in rat hippocampus. <i>Molecular and Cellular Endocrinology</i> , 2005, 236, 9-16. | 1.6 | 24 |
| 131 | In vitro effect of quinolinic acid on energy metabolism in brain of young rats. <i>Neuroscience Research</i> , 2007, 57, 277-288. | 1.0 | 24 |
| 132 | Sulfite increases lipoperoxidation and decreases the activity of catalase in brain of rats. <i>Metabolic Brain Disease</i> , 2008, 23, 123-132. | 1.4 | 24 |
| 133 | Hypermethioninemia provokes oxidative damage and histological changes in liver of rats. <i>Biochimie</i> , 2009, 91, 961-968. | 1.3 | 24 |
| 134 | Chronic hyperhomocysteinemia induces oxidative damage in the rat lung. <i>Molecular and Cellular Biochemistry</i> , 2011, 358, 153-160. | 1.4 | 24 |
| 135 | Folic Acid Prevents Behavioral Impairment and Na ⁺ ,K ⁺ -ATPase Inhibition Caused by Neonatal Hypoxia-Ischemia. <i>Neurochemical Research</i> , 2012, 37, 1624-1630. | 1.6 | 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. <i>Brain Research</i> , 2001, 920, 194-201. | 1.1 | 23 |
| 137 | Alanine prevents the inhibition of pyruvate kinase activity caused by tryptophan in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2003, 18, 129-137. | 1.4 | 23 |
| 138 | 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, 11-17. | 0.7 | 23 |
| 139 | Inhibition of the Electron Transport Chain and Creatine Kinase Activity by Ethylmalonic Acid in Human Skeletal Muscle. <i>Metabolic Brain Disease</i> , 2006, 21, 11-19. | 1.4 | 23 |
| 140 | Hypermethioninemia Increases Cerebral Acetylcholinesterase Activity and Impairs Memory in Rats. <i>Neurochemical Research</i> , 2007, 32, 1868-1874. | 1.6 | 23 |
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