

Mitochondria in Neuroplasticity and Neurological Disor

Neuron

60, 748-766

DOI: [10.1016/j.neuron.2008.10.010](https://doi.org/10.1016/j.neuron.2008.10.010)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 237. Transgenic Expression of Dp116 in Muscle Does Not Ameliorate Dystrophy in mdx Mice. <i>Molecular Therapy</i> , 2004, 9, S91. | 3.7 | 1 |
| 2 | Mitochondrial Mislocalization Underlies A β 242-Induced Neuronal Dysfunction in a <i>Drosophila</i> Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2009, 4, e8310. | 1.1 | 107 |
| 3 | Mechanisms Underlying Metabolic and Neural Defects in Zebrafish and Human Multiple Acyl-CoA Dehydrogenase Deficiency (MADD). <i>PLoS ONE</i> , 2009, 4, e8329. | 1.1 | 52 |
| 4 | Directed intermittent search for a hidden target on a dendritic tree. <i>Physical Review E</i> , 2009, 80, 021913. | 0.8 | 33 |
| 5 | The dynamin-related GTPase Drp1 is required for embryonic and brain development in mice. <i>Journal of Cell Biology</i> , 2009, 186, 805-816. | 2.3 | 556 |
| 6 | Metabonomic studies of schizophrenia and psychotropic medications: focus on alterations in CNS energy homeostasis. <i>Bioanalysis</i> , 2009, 1, 1615-1626. | 0.6 | 21 |
| 7 | Neutralization of granulocyte macrophage colony-stimulating factor decreases amyloid beta 1-42 and suppresses microglial activity in a transgenic mouse model of Alzheimer's disease. <i>Human Molecular Genetics</i> , 2009, 18, 3876-3893. | 1.4 | 48 |
| 8 | Mitochondrial Transport Dynamics in Axons and Dendrites. <i>Results and Problems in Cell Differentiation</i> , 2009, 48, 361-381. | 0.2 | 36 |
| 9 | Drilling for Energy in Mitochondrial Disease. <i>Archives of Neurology</i> , 2009, 66, 931-2. | 4.9 | 6 |
| 10 | Haploinsufficiency of <i>AFC3L2</i> , the Gene Responsible for Spinocerebellar Ataxia Type 28, Causes Mitochondria-Mediated Purkinje Cell Dark Degeneration. <i>Journal of Neuroscience</i> , 2009, 29, 9244-9254. | 1.7 | 99 |
| 11 | Neuronal Vulnerability to Oxidative Damage in Aging. , 2009, , 83-95. | | 1 |
| 12 | Mitochondria and reactive oxygen and nitrogen species in neurological disorders and stroke: Therapeutic implications†. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 1299-1315. | 6.6 | 93 |
| 13 | Chapter 2 Live-Cell Imaging in the Study of Neurodegeneration. <i>International Review of Cell and Molecular Biology</i> , 2009, 276, 49-103. | 1.6 | 8 |
| 14 | Contribution of in vitro neurotoxicology studies to the elucidation of neurodegenerative processes. <i>Brain Research Bulletin</i> , 2009, 80, 211-216. | 1.4 | 10 |
| 15 | Increased sensitivity of myoblasts to oxidative stress in amyotrophic lateral sclerosis peripheral tissues. <i>Experimental Neurology</i> , 2009, 218, 92-97. | 2.0 | 16 |
| 17 | Unrepaired oxidative DNA damage induces an ATR/ATM apoptotic-like response in quiescent fission yeast. <i>Cell Cycle</i> , 2009, 8, 2326-2331. | 1.3 | 9 |
| 18 | <i>Drosophila melanogaster</i> in the Study of Human Neurodegeneration. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 504-523. | 0.8 | 165 |
| 19 | Improved mitochondrial function in brain aging and Alzheimer disease - the new mechanism of action of the old metabolic enhancer piracetam. <i>Frontiers in Neuroscience</i> , 2010, 1, . | 1.4 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 20 | The KATP Channel Activator Diazoxide Ameliorates Amyloid- β^2 and Tau Pathologies and Improves Memory in the 3xTgAD Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 22, 443-457. | 1.2 | 101 |
| 21 | Protection from aging by small chaperones. <i>Annals of the New York Academy of Sciences</i> , 2010, 1197, 67-75. | 1.8 | 6 |
| 22 | Cellular Stress Responses, The Hormesis Paradigm, and Vitagenes: Novel Targets for Therapeutic Intervention in Neurodegenerative Disorders. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1763-1811. | 2.5 | 649 |
| 23 | Mitochondrial dynamics, cell death and the pathogenesis of Parkinson's disease. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 1336-1353. | 2.2 | 77 |
| 24 | Quasi-steady State Reduction of Molecular Motor-Based Models of Directed Intermittent Search. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 1840-1866. | 0.9 | 81 |
| 25 | Synaptic Depression and Aberrant Excitatory Network Activity in Alzheimer's Disease: Two Faces of the Same Coin?. <i>NeuroMolecular Medicine</i> , 2010, 12, 48-55. | 1.8 | 138 |
| 26 | Adverse Stress, Hippocampal Networks, and Alzheimer's Disease. <i>NeuroMolecular Medicine</i> , 2010, 12, 56-70. | 1.8 | 169 |
| 27 | Mitochondrial Dysfunction: Common Final Pathway in Brain Aging and Alzheimer's Disease's Therapeutic Aspects. <i>Molecular Neurobiology</i> , 2010, 41, 159-171. | 1.9 | 222 |
| 28 | Creatine prevents the inhibition of energy metabolism and lipid peroxidation in rats subjected to GAA administration. <i>Metabolic Brain Disease</i> , 2010, 25, 331-338. | 1.4 | 18 |
| 29 | Silver exposure in developing zebrafish (<i>Danio rerio</i>): Persistent effects on larval behavior and survival. <i>Neurotoxicology and Teratology</i> , 2010, 32, 391-397. | 1.2 | 73 |
| 30 | Mitochondrial connection in chronic pain. <i>Pain</i> , 2010, 150, 1-2. | 2.0 | 2 |
| 31 | Inhibition of AMPA receptor trafficking at hippocampal synapses by β^2 -amyloid oligomers: the mitochondrial contribution. <i>Molecular Brain</i> , 2010, 3, 10. | 1.3 | 55 |
| 32 | Gene expression profiling implicates OXPHOS complexes in lifespan extension of flies over-expressing a small mitochondrial chaperone, Hsp22. <i>Experimental Gerontology</i> , 2010, 45, 611-620. | 1.2 | 31 |
| 33 | Emerging roles of mitochondrial proteases in neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1-10. | 0.5 | 93 |
| 34 | Calcium and normal brain ageing. <i>Cell Calcium</i> , 2010, 47, 158-164. | 1.1 | 77 |
| 35 | Mitochondria as decision-makers in cell death. <i>Environmental and Molecular Mutagenesis</i> , 2010, 51, 406-416. | 0.9 | 101 |
| 36 | Regional characterization of energy metabolism in the brain of normal and MPTP-intoxicated mice using new markers of glucose and phosphate transport. <i>Journal of Biomedical Science</i> , 2010, 17, 91. | 2.6 | 23 |
| 37 | Axon repair: surgical application at a subcellular scale. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 151-161. | 3.3 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 38 | Calcium-dependent mitochondrial function and dysfunction in neurons. <i>FEBS Journal</i> , 2010, 277, 3622-3636. | 2.2 | 266 |
| 39 | Mitochondrial trafficking and the provision of energy and calcium buffering at excitatory synapses. <i>European Journal of Neuroscience</i> , 2010, 32, 231-240. | 1.2 | 132 |
| 40 | A Rodent Model of Schizophrenia Reveals Increase in Creatine Kinase Activity with Associated Behavior Changes. <i>Oxidative Medicine and Cellular Longevity</i> , 2010, 3, 421-427. | 1.9 | 30 |
| 41 | Mitochondria: The Missing Link Between Preconditioning and Neuroprotection. <i>Journal of Alzheimer's Disease</i> , 2010, 20, S475-S485. | 1.2 | 46 |
| 42 | Evidence for Gender-Specific Transcriptional Profiles of Nigral Dopamine Neurons in Parkinson Disease. <i>PLoS ONE</i> , 2010, 5, e8856. | 1.1 | 113 |
| 43 | In-depth Exploration of Cerebrospinal Fluid by Combining Peptide Ligand Library Treatment and Label-free Protein Quantification. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1006-1021. | 2.5 | 116 |
| 44 | Cognition-Enhancing Properties of Dimebon in a Rat Novel Object Recognition Task Are Unlikely to Be Associated with Acetylcholinesterase Inhibition or <i>N</i> -Methyl-D-aspartate Receptor Antagonism. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 333, 748-757. | 1.3 | 63 |
| 45 | Neurons Efficiently Repair Glutamate-induced Oxidative DNA Damage by a Process Involving CREB-mediated Up-regulation of Apurinic Endonuclease 1. <i>Journal of Biological Chemistry</i> , 2010, 285, 28191-28199. | 1.6 | 84 |
| 46 | Amyloid- β Peptide Oligomers Disrupt Axonal Transport through an NMDA Receptor-Dependent Mechanism That Is Mediated by Glycogen Synthase Kinase 3A in Primary Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 9166-9171. | 1.7 | 187 |
| 47 | The Neurogenic Basic Helix-Loop-Helix Transcription Factor NeuroD6 Confers Tolerance to Oxidative Stress by Triggering an Antioxidant Response and Sustaining the Mitochondrial Biomass. <i>ASN Neuro</i> , 2010, 2, AN20100005. | 1.5 | 60 |
| 48 | Mitochondrial quality control and neurological disease: an emerging connection. <i>Expert Reviews in Molecular Medicine</i> , 2010, 12, e12. | 1.6 | 74 |
| 49 | Oxidative Stress and Altered Mitochondrial Function in Neurodegenerative Diseases: Lessons From Mouse Models. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 439-454. | 0.8 | 79 |
| 50 | Dementia, stroke and migraine – Some common pathological mechanisms. <i>Journal of the Neurological Sciences</i> , 2010, 299, 55-65. | 0.3 | 23 |
| 51 | A NH2 Tau Fragment Targets Neuronal Mitochondria at AD Synapses: Possible Implications for Neurodegeneration. <i>Journal of Alzheimer's Disease</i> , 2010, 21, 445-470. | 1.2 | 92 |
| 52 | Systemic administration of 3-nitropropionic acid points out a different role for active caspase-3 in neurons and astrocytes. <i>Neurochemistry International</i> , 2010, 56, 443-450. | 1.9 | 18 |
| 53 | Glutamine-mediated protection from neuronal cell death depends on mitochondrial activity. <i>Neuroscience Letters</i> , 2010, 482, 151-155. | 1.0 | 12 |
| 54 | Regulation of axonal trafficking of cytochrome c oxidase IV mRNA. <i>Molecular and Cellular Neurosciences</i> , 2010, 43, 422-430. | 1.0 | 61 |
| 55 | Mitochondrial trafficking and morphology in neuronal injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 143-150. | 1.8 | 62 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 56 | Butin reduces oxidative stress-induced mitochondrial dysfunction via scavenging of reactive oxygen species. <i>Food and Chemical Toxicology</i> , 2010, 48, 922-927. | 1.8 | 17 |
| 57 | Essential Regulation of Cell Bioenergetics by Constitutive InsP3 Receptor Ca ²⁺ Transfer to Mitochondria. <i>Cell</i> , 2010, 142, 270-283. | 13.5 | 888 |
| 58 | Pigmented creatine deposits in Amyotrophic Lateral Sclerosis central nervous system tissues identified by synchrotron Fourier Transform Infrared microspectroscopy and X-ray fluorescence spectromicroscopy. <i>Neuroscience</i> , 2010, 166, 1119-1128. | 1.1 | 29 |
| 59 | Compromised respiratory adaptation and thermoregulation in aging and age-related diseases. <i>Ageing Research Reviews</i> , 2010, 9, 20-40. | 5.0 | 17 |
| 60 | Perspective: Does brown fat protect against diseases of aging?. <i>Ageing Research Reviews</i> , 2010, 9, 69-76. | 5.0 | 100 |
| 61 | Modulation of mitochondrial calcium as a pharmacological target for Alzheimer's disease. <i>Ageing Research Reviews</i> , 2010, 9, 447-456. | 5.0 | 42 |
| 62 | Mitochondria and Neuroplasticity. <i>ASN Neuro</i> , 2010, 2, AN20100019. | 1.5 | 337 |
| 63 | Electrophysiological actions of zonisamide on striatal neurons: Selective neuroprotection against complex I mitochondrial dysfunction. <i>Experimental Neurology</i> , 2010, 221, 217-224. | 2.0 | 28 |
| 64 | The plasma membrane redox system is impaired by amyloid β -peptide and in the hippocampus and cerebral cortex of 3xTgAD mice. <i>Experimental Neurology</i> , 2010, 225, 423-429. | 2.0 | 38 |
| 65 | Interactive Comorbidity between Opioid Drug Abuse and HIV-1 Tat. <i>American Journal of Pathology</i> , 2010, 177, 1397-1410. | 1.9 | 133 |
| 66 | Morphological and Functional Abnormalities in Mitochondria Associated with Synaptic Degeneration in Prion Disease. <i>American Journal of Pathology</i> , 2010, 177, 1411-1421. | 1.9 | 72 |
| 67 | ER Calcium and Alzheimer's Disease: In a State of Flux. <i>Science Signaling</i> , 2010, 3, pe10. | 1.6 | 135 |
| 68 | Calcium and Mitochondrial Reactive Oxygen Species Generation: How to Read the Facts. <i>Journal of Alzheimer's Disease</i> , 2010, 20, S413-S426. | 1.2 | 209 |
| 69 | Friedreich Ataxia: Molecular Mechanisms, Redox Considerations, and Therapeutic Opportunities. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 651-690. | 2.5 | 159 |
| 70 | Mitochondrial dysfunction - the beginning of the end in Alzheimer's disease? Separate and synergistic modes of tau and amyloid- β toxicity. <i>Alzheimer's Research and Therapy</i> , 2011, 3, 15. | 3.0 | 136 |
| 72 | Analyzing Schizophrenia by DNA Microarrays. <i>Biological Psychiatry</i> , 2011, 69, 157-162. | 0.7 | 58 |
| 73 | Type A monoamine oxidase regulates life and death of neurons in neurodegeneration and neuroprotection. <i>International Review of Neurobiology</i> , 2011, 100, 85-106. | 0.9 | 28 |
| 74 | Mitochondria and the Autophagy-Inflammation-Cell Death Axis in Organismal Aging. <i>Science</i> , 2011, 333, 1109-1112. | 6.0 | 983 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 75 | Amyloid beta impairs mitochondrial anterograde transport and degenerates synapses in Alzheimer's disease neurons. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 507-513. | 1.8 | 202 |
| 76 | PARK6 PINK1 mutants are defective in maintaining mitochondrial membrane potential and inhibiting ROS formation of substantia nigra dopaminergic neurons. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 674-684. | 1.8 | 105 |
| 77 | Expression profiling reveals differential gene induction underlying specific and non-specific memory for pheromones in mice. <i>Neurochemistry International</i> , 2011, 59, 787-803. | 1.9 | 3 |
| 78 | Long-term electromagnetic field treatment enhances brain mitochondrial function of both Alzheimer's transgenic mice and normal mice: a mechanism for electromagnetic field-induced cognitive benefit?. <i>Neuroscience</i> , 2011, 185, 135-149. | 1.1 | 83 |
| 79 | Mitochondrial proteins, learning and memory: biochemical specialization of a memory system. <i>Neuroscience</i> , 2011, 194, 112-123. | 1.1 | 18 |
| 80 | Mitochondria Are Related to Synaptic Pathology in Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-7. | 1.1 | 43 |
| 82 | Connectivity between mitochondrial functions and psychiatric disorders. <i>Psychiatry and Clinical Neurosciences</i> , 2011, 65, 130-141. | 1.0 | 51 |
| 83 | Chronic alcoholism in rats induces a compensatory response, preserving brain thiamine diphosphate, but the brain 2-oxo acid dehydrogenases are inactivated despite unchanged coenzyme levels. <i>Journal of Neurochemistry</i> , 2011, 117, 1055-1065. | 2.1 | 18 |
| 84 | Evidence that OGG1 Glycosylase Protects Neurons against Oxidative DNA Damage and Cell Death under Ischemic Conditions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 680-692. | 2.4 | 101 |
| 85 | Aluminum toxicity and astrocyte dysfunction: A metabolic link to neurological disorders. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1513-1517. | 1.5 | 43 |
| 86 | Disrupted energy metabolism and neuronal circuit dysfunction in cognitive impairment and Alzheimer's disease. <i>Lancet Neurology</i> , The, 2011, 10, 187-198. | 4.9 | 463 |
| 87 | Aberrant subcellular neuronal calcium regulation in aging and Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 965-973. | 1.9 | 105 |
| 88 | Mitochondrial division: molecular machinery and physiological functions. <i>Current Opinion in Cell Biology</i> , 2011, 23, 427-434. | 2.6 | 89 |
| 89 | Endoplasmic Reticulum Ca ²⁺ Handling in Excitable Cells in Health and Disease. <i>Pharmacological Reviews</i> , 2011, 63, 700-727. | 7.1 | 210 |
| 90 | Apoptosis and aging: increased resistance to apoptosis enhances the aging process. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 1021-1031. | 2.4 | 116 |
| 91 | Recombinant human mitochondrial transcription factor A stimulates mitochondrial biogenesis and ATP synthesis, improves motor function after MPTP, reduces oxidative stress and increases survival after endotoxin. <i>Mitochondrion</i> , 2011, 11, 108-118. | 1.6 | 43 |
| 92 | APP Transgenic Mice: Their Use and Limitations. <i>NeuroMolecular Medicine</i> , 2011, 13, 117-137. | 1.8 | 69 |
| 93 | Mitochondrial Quality Control and Parkinson's Disease: A Pathway Unfolds. <i>Molecular Neurobiology</i> , 2011, 43, 80-86. | 1.9 | 49 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 94 | Techniques to Investigate Neuronal Mitochondrial Function and its Pharmacological Modulation. <i>Current Drug Targets</i> , 2011, 12, 762-773. | 1.0 | 16 |
| 95 | Links between Electrophysiological and Molecular Pathology of Amyotrophic Lateral Sclerosis. <i>Integrative and Comparative Biology</i> , 2011, 51, 913-925. | 0.9 | 26 |
| 96 | The Role of Iron in Learning and Memory. <i>Advances in Nutrition</i> , 2011, 2, 112-121. | 2.9 | 193 |
| 97 | Mitochondrial matrix Ca ²⁺ as an intrinsic signal regulating mitochondrial motility in axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15456-15461. | 3.3 | 125 |
| 98 | Gamma oscillations in the hippocampus require high complex I gene expression and strong functional performance of mitochondria. <i>Brain</i> , 2011, 134, 345-358. | 3.7 | 156 |
| 99 | The Striatum Is Highly Susceptible to Mitochondrial Oxidative Phosphorylation Dysfunctions. <i>Journal of Neuroscience</i> , 2011, 31, 9895-9904. | 1.7 | 99 |
| 100 | Human MIEF1 recruits Drp1 to mitochondrial outer membranes and promotes mitochondrial fusion rather than fission. <i>EMBO Journal</i> , 2011, 30, 2762-2778. | 3.5 | 318 |
| 101 | Impaired Adaptive Cellular Responses to Oxidative Stress and the Pathogenesis of Alzheimer's Disease. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1519-1534. | 2.5 | 54 |
| 102 | Potential factors that may promote successful cognitive aging. <i>Nursing (Auckland, N Z)</i> , 2012, , 27. | 2.0 | 5 |
| 103 | Mitochondrial c-Src regulates cell survival through phosphorylation of respiratory chain components. <i>Biochemical Journal</i> , 2012, 447, 281-289. | 1.7 | 77 |
| 104 | Genetic Analysis in <i>Drosophila</i> Reveals a Role for the Mitochondrial Protein P32 in Synaptic Transmission. <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 59-69. | 0.8 | 25 |
| 105 | Effects of the standardized <i>Ginkgo biloba</i> extract EGb 761 [®] on neuroplasticity. <i>International Psychogeriatrics</i> , 2012, 24, S21-S24. | 0.6 | 61 |
| 106 | Proteomic Analysis of Mitochondria in <i>APOE</i> Transgenic Mice and in Response to an Ischemic Challenge. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 164-176. | 2.4 | 37 |
| 107 | Cytosolic Calcium Coordinates Mitochondrial Energy Metabolism with Presynaptic Activity. <i>Journal of Neuroscience</i> , 2012, 32, 1233-1243. | 1.7 | 63 |
| 108 | Mitochondrial Dynamics Regulate Growth Cone Motility, Guidance, and Neurite Growth Rate in Perinatal Retinal Ganglion Cells In Vitro. , 2012, 53, 7402. | | 51 |
| 109 | Neuronal Mitochondrial Transport and Dysfunction. , 2012, , 157-173. | | 1 |
| 110 | Opa1 is essential for retinal ganglion cell synaptic architecture and connectivity. <i>Brain</i> , 2012, 135, 493-505. | 3.7 | 87 |
| 111 | Opiate Drug Use and the Pathophysiology of NeuroAIDS. <i>Current HIV Research</i> , 2012, 10, 435-452. | 0.2 | 94 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 112 | Transcranial Electromagnetic Treatment Against Alzheimer's Disease: Why it has the Potential to Trump Alzheimer's Disease Drug Development. <i>Journal of Alzheimer's Disease</i> , 2012, 32, 243-266. | 1.2 | 36 |
| 114 | Recruiting adaptive cellular stress responses for successful brain ageing. <i>Nature Reviews Neuroscience</i> , 2012, 13, 209-216. | 4.9 | 153 |
| 115 | Involvement of PGC-1 β in the formation and maintenance of neuronal dendritic spines. <i>Nature Communications</i> , 2012, 3, 1250. | 5.8 | 308 |
| 116 | Energy Intake and Exercise as Determinants of Brain Health and Vulnerability to Injury and Disease. <i>Cell Metabolism</i> , 2012, 16, 706-722. | 7.2 | 340 |
| 117 | Regional susceptibilities to mitochondrial dysfunctions in the CNS. <i>Biological Chemistry</i> , 2012, 393, 275-281. | 1.2 | 17 |
| 118 | Ablation of PGC1 beta prevents mTOR dependent endoplasmic reticulum stress response. <i>Experimental Neurology</i> , 2012, 237, 396-406. | 2.0 | 20 |
| 119 | Mitochondrial dysfunction in epilepsy. <i>Mitochondrion</i> , 2012, 12, 35-40. | 1.6 | 143 |
| 120 | Role of advanced glycation endproducts and glyoxalase I in diabetic peripheral sensory neuropathy. <i>Translational Research</i> , 2012, 159, 355-365. | 2.2 | 109 |
| 121 | Catechins in neuroAIDS. <i>Journal of NeuroVirology</i> , 2012, 18, 443-444. | 1.0 | 0 |
| 122 | Different Approaches, One Target: Understanding Cellular Mechanisms of Parkinson's and Alzheimer's Diseases. <i>Revista Brasileira De Psiquiatria</i> , 2012, 34, 194-218. | 0.9 | 9 |
| 123 | Sensing the long and the short of it. <i>Nature Neuroscience</i> , 2012, 15, 501-503. | 7.1 | 1 |
| 124 | Interaction between NH2-tau fragment and A β 2 in Alzheimer's disease mitochondria contributes to the synaptic deterioration. <i>Neurobiology of Aging</i> , 2012, 33, 833.e1-833.e25. | 1.5 | 78 |
| 125 | The effect of aging-associated impaired mitochondrial status on kainate-evoked hippocampal gamma oscillations. <i>Neurobiology of Aging</i> , 2012, 33, 2692-2703. | 1.5 | 16 |
| 126 | Effects of Polyphenols on Brain Ageing and Alzheimer's Disease: Focus on Mitochondria. <i>Molecular Neurobiology</i> , 2012, 46, 161-178. | 1.9 | 107 |
| 127 | Do cannabinoids reduce brain power?. <i>Nature Neuroscience</i> , 2012, 15, 499-501. | 7.1 | 7 |
| 128 | Novel metabolic aspects related to adenosine deaminase inhibition in a human astrocytoma cell line. <i>Neurochemistry International</i> , 2012, 60, 523-532. | 1.9 | 15 |
| 129 | Death in pain: peripheral nerve injury and spinal neurodegenerative mechanisms. <i>Current Opinion in Pharmacology</i> , 2012, 12, 49-54. | 1.7 | 5 |
| 130 | Mitochondrial Superoxide Production Negatively Regulates Neural Progenitor Proliferation and Cerebral Cortical Development. <i>Stem Cells</i> , 2012, 30, 2535-2547. | 1.4 | 78 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 131 | Insights into Mitochondrial Dysfunction: Aging, Amyloid- β^2 , and Tau—A Deleterious Trio. Antioxidants and Redox Signaling, 2012, 16, 1456-1466. | 2.5 | 115 |
| 132 | Mitochondrion-Derived Reactive Oxygen Species Lead to Enhanced Amyloid Beta Formation. Antioxidants and Redox Signaling, 2012, 16, 1421-1433. | 2.5 | 273 |
| 133 | Mitochondrial Abnormalities in Alzheimer—™s Disease. Advances in Pharmacology, 2012, 64, 83-126. | 1.2 | 66 |
| 134 | Alzheimer's Disease, Oestrogen and Mitochondria: an Ambiguous Relationship. Molecular Neurobiology, 2012, 46, 151-160. | 1.9 | 51 |
| 135 | Homocysteine induces energy imbalance in rat skeletal muscle: Is creatine a protector?. Cell Biochemistry and Function, 2013, 31, 575-584. | 1.4 | 31 |
| 137 | Phytochemicals, Signal Transduction, and Neurological Disorders. , 2012, , . | | 33 |
| 138 | Apoptosis and Necrosis. , 2012, , 663-676. | | 9 |
| 139 | Energetics based spike generation of a single neuron: simulation results and analysis. Frontiers in Neuroenergetics, 2012, 5, 2. | 5.3 | 6 |
| 140 | Emerging Concepts Linking Mitochondrial Stress Signalling and Parkinson's Disease. , 0, , . | | 0 |
| 141 | Molecular and Electrical Abnormalities in the Mouse Model of Amyotrophic Lateral Sclerosis. , 0, , . | | 0 |
| 142 | Impaired mitochondrial function in psychiatric disorders. Nature Reviews Neuroscience, 2012, 13, 293-307. | 4.9 | 388 |
| 143 | Dimebon Ameliorates Amyloid- β^2 Induced Impairments of Mitochondrial Form and Function. Journal of Alzheimer's Disease, 2012, 31, 21-32. | 1.2 | 42 |
| 144 | Mitochondrial Importance in Alzheimer—™s, Huntington—™s and Parkinson—™s Diseases. Advances in Experimental Medicine and Biology, 2012, 724, 205-221. | 0.8 | 57 |
| 145 | Mitochondrial Dysfunction—™A Pharmacological Target in Alzheimer's Disease. Molecular Neurobiology, 2012, 46, 136-150. | 1.9 | 115 |
| 146 | Mitochondrial CB1 receptors regulate neuronal energy metabolism. Nature Neuroscience, 2012, 15, 558-564. | 7.1 | 450 |
| 147 | The plasma membrane redox enzyme NQO1 sustains cellular energetics and protects human neuroblastoma cells against metabolic and proteotoxic stress. Age, 2012, 34, 359-370. | 3.0 | 26 |
| 148 | Mitochondrial Ca ²⁺ and neurodegeneration. Cell Calcium, 2012, 52, 73-85. | 1.1 | 110 |
| 149 | Neuroprotective effect of the aminoestrogen prolame against impairment of learning and memory skills in rats injected with amyloid- β^2 -25—™35 into the hippocampus. European Journal of Pharmacology, 2012, 685, 74-80. | 1.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 150 | Cellular consequences of the expression of Alzheimer's disease-causing presenilin 1 mutations in human neuroblastoma (SH-SY5Y) cells. <i>Brain Research</i> , 2012, 1443, 75-88. | 1.1 | 8 |
| 151 | Insulin signaling, glucose metabolism and mitochondria: Major players in Alzheimer's disease and diabetes interrelation. <i>Brain Research</i> , 2012, 1441, 64-78. | 1.1 | 164 |
| 152 | Differential effects of escitalopram administration on metabolic parameters of cortical and subcortical brain regions of Wistar rats. <i>Acta Neuropsychiatrica</i> , 2012, 24, 147-154. | 1.0 | 11 |
| 153 | Hippocampal neurometabolite changes in depression treatment: A 1H magnetic resonance spectroscopy study. <i>Psychiatry Research - Neuroimaging</i> , 2012, 201, 206-213. | 0.9 | 19 |
| 154 | Molecular Links between Mitochondrial Dysfunctions and Schizophrenia. <i>Molecules and Cells</i> , 2012, 33, 105-110. | 1.0 | 50 |
| 155 | Parkin, PINK1 and mitochondrial integrity: emerging concepts of mitochondrial dysfunction in Parkinson's disease. <i>Acta Neuropathologica</i> , 2012, 123, 173-188. | 3.9 | 118 |
| 156 | Intracellular ASIC1a regulates mitochondrial permeability transition-dependent neuronal death. <i>Cell Death and Differentiation</i> , 2013, 20, 1359-1369. | 5.0 | 38 |
| 157 | Molecular links between Alzheimer's disease and diabetes mellitus. <i>Neuroscience</i> , 2013, 250, 140-150. | 1.1 | 173 |
| 158 | The role of mitochondrial OXPHOS dysfunction in the development of neurologic diseases. <i>Neurobiology of Disease</i> , 2013, 51, 27-34. | 2.1 | 75 |
| 159 | Mitochondria Coordinate Sites of Axon Branching through Localized Intra-axonal Protein Synthesis. <i>Cell Reports</i> , 2013, 5, 1564-1575. | 2.9 | 242 |
| 160 | Dendritic spine pathology in schizophrenia. <i>Neuroscience</i> , 2013, 251, 90-107. | 1.1 | 472 |
| 161 | Asthma: a clinical condition for brain health. <i>Experimental Neurology</i> , 2013, 248, 338-342. | 2.0 | 11 |
| 162 | Retinal ganglion cells: Energetics, compartmentation, axonal transport, cytoskeletons and vulnerability. <i>Progress in Retinal and Eye Research</i> , 2013, 36, 217-246. | 7.3 | 160 |
| 163 | Mitochondrial Alterations near Amyloid Plaques in an Alzheimer's Disease Mouse Model. <i>Journal of Neuroscience</i> , 2013, 33, 17042-17051. | 1.7 | 156 |
| 164 | Diagnosis and treatment of mitochondrial myopathies. <i>Annals of Medicine</i> , 2013, 45, 4-16. | 1.5 | 144 |
| 165 | Improvement of mitochondrial function and dynamics by the metabolic enhancer piracetam. <i>Biochemical Society Transactions</i> , 2013, 41, 1331-1334. | 1.6 | 22 |
| 166 | Aerobic Exercise Combined with Antioxidative Treatment does not Counteract Moderate- or Mid-Stage Alzheimer-Like Pathophysiology of APP/PS1 Mice. <i>CNS Neuroscience and Therapeutics</i> , 2013, 19, 795-803. | 1.9 | 39 |
| 167 | Mutant LRRK2 Elicits Calcium Imbalance and Depletion of Dendritic Mitochondria in Neurons. <i>American Journal of Pathology</i> , 2013, 182, 474-484. | 1.9 | 172 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 168 | Long-term $A\beta^{1-42}$ exposure augments mC ²⁺ -independent mROS-mediated depletion of cardiolipin for the shift of a lethal transient mitochondrial permeability transition to its permanent mode in NARP cybrids: a protective targeting of melatonin. <i>Journal of Pineal Research</i> , 2013, 54, 107-125. | 3.4 | 22 |
| 169 | Mitochondrial plasticity of the hippocampus in a genetic rat model of depression after antidepressant treatment. <i>Synapse</i> , 2013, 67, 127-134. | 0.6 | 38 |
| 170 | Succinobucol versus probucol: Higher efficiency of succinobucol in mitigating 3-NP-induced brain mitochondrial dysfunction and oxidative stress in vitro. <i>Mitochondrion</i> , 2013, 13, 125-133. | 1.6 | 22 |
| 171 | BDNF receptor blockade hinders the beneficial effects of exercise in a rat model of Parkinson's disease. <i>Neuroscience</i> , 2013, 237, 118-129. | 1.1 | 98 |
| 172 | Long term cortical plasticity in visual retinotopic areas in humans with silent retinal ganglion cell loss. <i>NeuroImage</i> , 2013, 81, 222-230. | 2.1 | 26 |
| 173 | Localization of type-III sodium-dependent phosphate transporter 2 in the mouse brain. <i>Brain Research</i> , 2013, 1531, 75-83. | 1.1 | 37 |
| 174 | Centaurin-1-Ras-Elk-1 Signaling at Mitochondria Mediates $A\beta$ -Amyloid-Induced Synaptic Dysfunction. <i>Journal of Neuroscience</i> , 2013, 33, 5367-5374. | 1.7 | 37 |
| 175 | TRAK/Milton Motor-Adaptor Proteins Steer Mitochondrial Trafficking to Axons and Dendrites. <i>Neuron</i> , 2013, 77, 485-502. | 3.8 | 336 |
| 176 | Omega-3 fatty acids in neurodegenerative diseases: Focus on mitochondria. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2013, 88, 105-114. | 1.0 | 85 |
| 177 | Mitochondria and the economy of stress (mal)adaptation. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 668-680. | 2.9 | 102 |
| 178 | Regulation of mitochondrial dynamics: convergences and divergences between yeast and vertebrates. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 951-976. | 2.4 | 72 |
| 179 | Role of mitochondrial homeostasis and dynamics in Alzheimer's disease. <i>Neurobiology of Disease</i> , 2013, 51, 3-12. | 2.1 | 144 |
| 180 | Inhibitory effects of p38 inhibitor against mitochondrial dysfunction in the early brain injury after subarachnoid hemorrhage in mice. <i>Brain Research</i> , 2013, 1517, 133-140. | 1.1 | 44 |
| 181 | Mitochondrial dysfunction and oxidative stress in Parkinson's disease. <i>Progress in Neurobiology</i> , 2013, 106-107, 17-32. | 2.8 | 572 |
| 182 | Advances in electrochemical detection for study of neurodegenerative disorders. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5725-5741. | 1.9 | 35 |
| 183 | Mitochondrial dysfunction in psychiatric and neurological diseases: Cause(s), consequence(s), and implications of antioxidant therapy. <i>BioFactors</i> , 2013, 39, 392-406. | 2.6 | 56 |
| 184 | Synaptic Dysfunction in the Hippocampus Accompanies Learning and Memory Deficits in Human Immunodeficiency Virus Type-1 Tat Transgenic Mice. <i>Biological Psychiatry</i> , 2013, 73, 443-453. | 0.7 | 146 |
| 185 | Parkinson's disease, insulin resistance and novel agents of neuroprotection. <i>Brain</i> , 2013, 136, 374-384. | 3.7 | 239 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 186 | Overlapped Metabolic and Therapeutic Links between Alzheimer and Diabetes. <i>Molecular Neurobiology</i> , 2013, 47, 399-424. | 1.9 | 71 |
| 187 | Nebula/DSCR1 Upregulation Delays Neurodegeneration and Protects against APP-Induced Axonal Transport Defects by Restoring Calcineurin and GSK-3 β Signaling. <i>PLoS Genetics</i> , 2013, 9, e1003792. | 1.5 | 42 |
| 188 | Mutations in cytoplasmic dynein and its regulators cause malformations of cortical development and neurodegenerative diseases. <i>Biochemical Society Transactions</i> , 2013, 41, 1605-1612. | 1.6 | 79 |
| 189 | Distinct Functions of Nuclear Distribution Proteins <i>LIS1</i> , <i>Ndel1</i> and <i>NudCL</i> in Regulating Axonal Mitochondrial Transport. <i>Traffic</i> , 2013, 14, 785-797. | 1.3 | 37 |
| 190 | The impairment of HCCS leads to MLS syndrome by activating a non-canonical cell death pathway in the brain and eyes. <i>EMBO Molecular Medicine</i> , 2013, 5, 280-293. | 3.3 | 33 |
| 191 | Diet and cognition. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2013, 16, 726-733. | 1.3 | 84 |
| 192 | Effects of aluminum on rat cerebellar cortex and the possible protective role of <i>Nigella sativa</i> . <i>Egyptian Journal of Histology</i> , 2013, 36, 979-990. | 0.0 | 6 |
| 193 | Mitochondrial Function in Human Neuroblastoma Cells Is Up-Regulated and Protected by NQO1, a Plasma Membrane Redox Enzyme. <i>PLoS ONE</i> , 2013, 8, e69030. | 1.1 | 29 |
| 194 | Mitochondrial Mechanisms of Neuroglobin's Neuroprotection. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-11. | 1.9 | 43 |
| 195 | Neuroprotective Effect of Tea Polyphenols on Oxyhemoglobin Induced Subarachnoid Hemorrhage in Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-7. | 1.9 | 19 |
| 196 | Mitochondrial Functions in Mood Disorders. , 2013, , . | | 2 |
| 197 | Alterations of Mitochondria and Golgi Apparatus Are Related to Synaptic Pathology in Alzheimer's Disease. , 0, , . | | 4 |
| 198 | A Splicing Mutation in the Novel Mitochondrial Protein DNAJC11 Causes Motor Neuron Pathology Associated with Cristae Disorganization, and Lymphoid Abnormalities in Mice. <i>PLoS ONE</i> , 2014, 9, e104237. | 1.1 | 42 |
| 199 | Mitochondrial Dysfunction: Different Routes to Alzheimer's Disease Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-11. | 1.9 | 159 |
| 200 | Mitochondrial Dysfunctions in Neurodegenerative Diseases: Relevance to Alzheimer's Disease. <i>BioMed Research International</i> , 2014, 2014, 1-9. | 0.9 | 227 |
| 201 | Fluvoxamine alters the activity of energy metabolism enzymes in the brain. <i>Revista Brasileira De Psiquiatria</i> , 2014, 36, 220-226. | 0.9 | 10 |
| 202 | Biochemical and Surgical Aspects of Epilepsy Related to Brain Tumors – Appraising Redox Biology and Treatments. , 0, , . | | 0 |
| 203 | Red fluorescent genetically encoded Ca $^{2+}$ indicators for use in mitochondria and endoplasmic reticulum. <i>Biochemical Journal</i> , 2014, 464, 13-22. | 1.7 | 132 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 204 | Collapsin Response Mediator Protein 5 (CRMP5) Induces Mitophagy, Thereby Regulating Mitochondrion Numbers in Dendrites. <i>Journal of Biological Chemistry</i> , 2014, 289, 2261-2276. | 1.6 | 17 |
| 205 | Oligomeric A β -induced synaptic dysfunction in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2014, 9, 48. | 4.4 | 424 |
| 206 | Phospholipase A2 - α - ω nexus of aging, oxidative stress, neuronal excitability, and functional decline of the aging nervous system? Insights from a snail model system of neuronal aging and age-associated memory impairment. <i>Frontiers in Genetics</i> , 2014, 5, 419. | 1.1 | 54 |
| 207 | Interactive HIV-1 Tat and Morphine-Induced Synaptodendritic Injury Is Triggered through Focal Disruptions in Na ⁺ Influx, Mitochondrial Instability, and Ca ²⁺ Overload. <i>Journal of Neuroscience</i> , 2014, 34, 12850-12864. | 1.7 | 73 |
| 208 | Changes in mitochondrial function are pivotal in neurodegenerative and psychiatric disorders: How important is $\langle \text{sc} \rangle$ BDNF $\langle / \text{sc} \rangle$?. <i>British Journal of Pharmacology</i> , 2014, 171, 2206-2229. | 2.7 | 81 |
| 209 | Costeff syndrome: clinical features and natural history. <i>Journal of Neurology</i> , 2014, 261, 2275-2282. | 1.8 | 26 |
| 210 | Strategies for treating mitochondrial disorders: An update. <i>Molecular Genetics and Metabolism</i> , 2014, 113, 253-260. | 0.5 | 18 |
| 211 | Targeting mitochondrially mediated plasticity to develop improved therapeutics for bipolar disorder. <i>Expert Opinion on Therapeutic Targets</i> , 2014, 18, 1131-1147. | 1.5 | 44 |
| 212 | Improvement of neuronal bioenergetics by neurosteroids: Implications for age-related neurodegenerative disorders. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2427-2438. | 1.8 | 84 |
| 213 | Nutritional Approaches for Healthy Aging of the Brain and the Prevention of Neurodegenerative Diseases. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2014, , 457-479. | 0.2 | 4 |
| 214 | The myriad roles of Miro in the nervous system: axonal transport of mitochondria and beyond. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 330. | 1.8 | 38 |
| 215 | Mitochondrial Energy Metabolism and Redox Signaling in Brain Aging and Neurodegeneration. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 353-371. | 2.5 | 212 |
| 216 | Permeability transition pore-mediated mitochondrial superoxide flashes mediate an early inhibitory effect of amyloid beta ¹⁻⁴² on neural progenitor cell proliferation. <i>Neurobiology of Aging</i> , 2014, 35, 975-989. | 1.5 | 60 |
| 217 | Xiao-Xu-Ming decoction preserves mitochondrial integrity and reduces apoptosis after focal cerebral ischemia and reperfusion via the mitochondrial p53 pathway. <i>Journal of Ethnopharmacology</i> , 2014, 151, 307-316. | 2.0 | 37 |
| 218 | Study of GOLPH3: a Potential Stress-Inducible Protein from Golgi Apparatus. <i>Molecular Neurobiology</i> , 2014, 49, 1449-1459. | 1.9 | 19 |
| 219 | MGARP Regulates Mouse Neocortical Development via Mitochondrial Positioning. <i>Molecular Neurobiology</i> , 2014, 49, 1293-1308. | 1.9 | 12 |
| 220 | Mitochondrial dysfunction as a central actor in intellectual disability-related diseases: An overview of Down syndrome, autism, Fragile X and Rett syndrome. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 46, 202-217. | 2.9 | 151 |
| 221 | Telomere shortening in neurological disorders: an abundance of unanswered questions. <i>Trends in Neurosciences</i> , 2014, 37, 256-263. | 4.2 | 139 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 222 | Brain gene expression patterns differentiate mild cognitive impairment from normal aged and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2014, 35, 1961-1972. | 1.5 | 114 |
| 223 | BDNF and Exercise Enhance Neuronal DNA Repair by Stimulating CREB-Mediated Production of Apurinic/Apyrimidinic Endonuclease 1. <i>NeuroMolecular Medicine</i> , 2014, 16, 161-174. | 1.8 | 121 |
| 224 | Mitochondria: hub of injury responses in the developing brain. <i>Lancet Neurology</i> , The, 2014, 13, 217-232. | 4.9 | 153 |
| 225 | Intragenic deletions affecting two alternative transcripts of the IMMP2L gene in patients with Tourette syndrome. <i>European Journal of Human Genetics</i> , 2014, 22, 1283-1289. | 1.4 | 69 |
| 226 | Miro-1 Links Mitochondria and Microtubule Dynein Motors To Control Lymphocyte Migration and Polarity. <i>Molecular and Cellular Biology</i> , 2014, 34, 1412-1426. | 1.1 | 100 |
| 227 | Interstitial 7q31.1 copy number variations disrupting IMMP2L gene are associated with a wide spectrum of neurodevelopmental disorders. <i>Molecular Cytogenetics</i> , 2014, 7, 54. | 0.4 | 29 |
| 228 | Cannabinoid-induced changes in respiration of brain mitochondria. <i>Toxicology Letters</i> , 2014, 231, 62-71. | 0.4 | 93 |
| 229 | Pharma-Nutrition. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2014, , . | 0.2 | 0 |
| 230 | Mitochondria and the central nervous system: searching for a pathophysiological basis of psychiatric disorders. <i>Revista Brasileira De Psiquiatria</i> , 2014, 36, 156-167. | 0.9 | 68 |
| 231 | Localization of the kinesin adaptor proteins trafficking kinesin proteins 1 and 2 in primary cultures of hippocampal pyramidal and cortical neurons. <i>Journal of Neuroscience Research</i> , 2015, 93, 1056-1066. | 1.3 | 20 |
| 232 | Mitochondrial CB1 receptor is involved in ACEA-induced protective effects on neurons and mitochondrial functions. <i>Scientific Reports</i> , 2015, 5, 12440. | 1.6 | 56 |
| 233 | Biomarkers of Mitochondrial Damage in the Liver. , 2015, , 292-309. | | 0 |
| 234 | Late-onset dementia: a mosaic of prototypical pathologies modifiable by diet and lifestyle. <i>Npj Aging and Mechanisms of Disease</i> , 2015, 1, . | 4.5 | 24 |
| 235 | Mitochondrial protection by the mixed muscarinic/5-HT ₁ ligand ANAVEX2-73, a tetrahydrofuran derivative, in Aβ ₂₅₋₃₅ peptide-injected mice, a nontransgenic Alzheimer's disease model. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 463. | 1.8 | 62 |
| 236 | Melatonin Attenuates Memory Impairment, Amyloid-β ² Accumulation, and Neurodegeneration in a Rat Model of Sporadic Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 47, 103-116. | 1.2 | 68 |
| 237 | Mitochondrial Protection by Exogenous Otx2 in Mouse Retinal Neurons. <i>Cell Reports</i> , 2015, 13, 990-1002. | 2.9 | 22 |
| 238 | Automatic quantification of mitochondrial fragmentation from two-photon microscope images of mouse brain tissue. <i>Journal of Microscopy</i> , 2015, 260, 338-351. | 0.8 | 5 |
| 240 | Integrating mitochondriomics in children's environmental health. <i>Journal of Applied Toxicology</i> , 2015, 35, 976-991. | 1.4 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 241 | Amyloid accumulation is a late event in sporadic Alzheimer's disease-like pathology in nontransgenic rats. <i>Oncotarget</i> , 2015, 6, 1396-1413. | 0.8 | 58 |
| 242 | MicroRNAs Regulate Mitochondrial Function in Cerebral Ischemia-Reperfusion Injury. <i>International Journal of Molecular Sciences</i> , 2015, 16, 24895-24917. | 1.8 | 64 |
| 243 | Purinergic Signaling and Energy Homeostasis in Psychiatric Disorders. <i>Current Molecular Medicine</i> , 2015, 15, 275-295. | 0.6 | 50 |
| 244 | Obesity accelerates cognitive decline by aggravating mitochondrial dysfunction, insulin resistance and synaptic dysfunction under estrogen-deprived conditions. <i>Hormones and Behavior</i> , 2015, 72, 68-77. | 1.0 | 81 |
| 245 | CSF lactate levels, \bar{I} , proteins, cognitive decline: a dynamic relationship in Alzheimer's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 655-659. | 0.9 | 108 |
| 246 | Magnetic Resonance Spectroscopy Studies in Bipolar Disorder Patients: Focus on the Potential Role of Oxidative Stress. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015, , 171-195. | 0.4 | 3 |
| 247 | Myricitrin alleviates MPP ⁺ -induced mitochondrial dysfunction in a DJ-1-dependent manner in SN4741 cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 227-233. | 1.0 | 30 |
| 248 | DNA polymerase \bar{I}^2 deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. <i>Nucleic Acids Research</i> , 2015, 43, 943-959. | 6.5 | 110 |
| 249 | Mitochondrial DNA haplogroup B5 confers genetic susceptibility to Alzheimer's disease in Han Chinese. <i>Neurobiology of Aging</i> , 2015, 36, 1604.e7-1604.e16. | 1.5 | 50 |
| 250 | PINK1 and Parkin Control Localized Translation of Respiratory Chain Component mRNAs on Mitochondria Outer Membrane. <i>Cell Metabolism</i> , 2015, 21, 95-108. | 7.2 | 175 |
| 251 | Manganese Superoxide Dismutase and Oxidative Stress Modulation. <i>Advances in Clinical Chemistry</i> , 2015, 68, 87-130. | 1.8 | 212 |
| 252 | Rutin inhibits amylin-induced neurocytotoxicity and oxidative stress. <i>Food and Function</i> , 2015, 6, 3296-3306. | 2.1 | 75 |
| 253 | Analysis of the <i>CHCHD10</i> gene in patients with frontotemporal dementia and amyotrophic lateral sclerosis from Spain. <i>Brain</i> , 2015, 138, e400-e400. | 3.7 | 56 |
| 254 | Miro's N-Terminal GTPase Domain Is Required for Transport of Mitochondria into Axons and Dendrites. <i>Journal of Neuroscience</i> , 2015, 35, 5754-5771. | 1.7 | 59 |
| 255 | Maternal stress predicts altered biogenesis and the profile of mitochondrial proteins in the frontal cortex and hippocampus of adult offspring rats. <i>Psychoneuroendocrinology</i> , 2015, 60, 151-162. | 1.3 | 55 |
| 256 | Berberine regulates neurite outgrowth through AMPK-dependent pathways by lowering energy status. <i>Experimental Cell Research</i> , 2015, 334, 194-206. | 1.2 | 19 |
| 257 | Genetic Variation of <i>MT-ND</i> Genes in Frontotemporal Lobar Degeneration: Biochemical Phenotype-Genotype Correlation. <i>Neurodegenerative Diseases</i> , 2015, 15, 70-80. | 0.8 | 1 |
| 258 | Simultaneous recording of fluorescence and electrical signals by photometric patch electrode in deep brain regions in vivo. <i>Journal of Neurophysiology</i> , 2015, 113, 3930-3942. | 0.9 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 259 | Effects of microwave radiation on brain energy metabolism and related mechanisms. <i>Military Medical Research</i> , 2015, 2, 4. | 1.9 | 46 |
| 260 | Neuroprotective effects of dietary restriction: Evidence and mechanisms. <i>Seminars in Cell and Developmental Biology</i> , 2015, 40, 106-114. | 2.3 | 79 |
| 261 | Synaptic mitochondria: A brain mitochondria cluster with a specific proteome. <i>Journal of Proteomics</i> , 2015, 120, 142-157. | 1.2 | 59 |
| 262 | Hypothalamic innate immune reaction in obesity. <i>Nature Reviews Endocrinology</i> , 2015, 11, 339-351. | 4.3 | 133 |
| 263 | Interactions between mitochondria and the transcription factor myocyte enhancer factor 2 (MEF2) regulate neuronal structural and functional plasticity and metaplasticity. <i>Journal of Physiology</i> , 2015, 593, 3471-3481. | 1.3 | 25 |
| 264 | Dependence of Hippocampal Function on ERR β -Regulated Mitochondrial Metabolism. <i>Cell Metabolism</i> , 2015, 21, 628-636. | 7.2 | 45 |
| 265 | Glyceraldehyde-3-phosphate Dehydrogenase Aggregates Accelerate Amyloid- β Amyloidogenesis in Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2015, 290, 26072-26087. | 1.6 | 60 |
| 266 | The Role of Iron and Other Trace Elements on Mental Development and Cognitive Function. , 2015, , 157-179. | | 0 |
| 267 | Foxg1 localizes to mitochondria and coordinates cell differentiation and bioenergetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13910-13915. | 3.3 | 54 |
| 269 | Mutations in SPATA5 Are Associated with Microcephaly, Intellectual Disability, Seizures, and Hearing Loss. <i>American Journal of Human Genetics</i> , 2015, 97, 457-464. | 2.6 | 134 |
| 270 | Cytochrome b5 reductase, a plasma membrane redox enzyme, protects neuronal cells against metabolic and oxidative stress through maintaining redox state and bioenergetics. <i>Age</i> , 2015, 37, 122. | 3.0 | 24 |
| 271 | Molecular mechanisms of memory in imprinting. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 50, 56-69. | 2.9 | 40 |
| 272 | Mitochondrial dysfunction in schizophrenia: Pathways, mechanisms and implications. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 48, 10-21. | 2.9 | 214 |
| 273 | A mitochondrial bioenergetic basis of depression. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 155-171. | 1.0 | 109 |
| 274 | Drp1-Mediated Mitochondrial Abnormalities Link to Synaptic Injury in Diabetes Model. <i>Diabetes</i> , 2015, 64, 1728-1742. | 0.3 | 121 |
| 275 | The Role of Nutrients in Protecting Mitochondrial Function and Neurotransmitter Signaling: Implications for the Treatment of Depression, PTSD, and Suicidal Behaviors. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 2560-2578. | 5.4 | 78 |
| 276 | Myoinositol Attenuates the Cell Loss and Biochemical Changes Induced by Kainic Acid Status Epilepticus. <i>BioMed Research International</i> , 2016, 2016, 1-14. | 0.9 | 9 |
| 277 | Killing Me Softly: Connotations to Unfolded Protein Response and Oxidative Stress in Alzheimer's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-17. | 1.9 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 278 | Protection against Mitochondrial and Metal Toxicity Depends on Functional Lipid Binding Sites in ATP13A2. <i>Parkinson's Disease</i> , 2016, 2016, 1-11. | 0.6 | 18 |
| 279 | Linking Mitochondria to Synapses: New Insights for Stress-Related Neuropsychiatric Disorders. <i>Neural Plasticity</i> , 2016, 2016, 1-13. | 1.0 | 60 |
| 280 | Subcellular Localization of Class I Histone Deacetylases in the Developing <i>Xenopus tectum</i> . <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 510. | 1.8 | 15 |
| 281 | Dynamics of Mitochondrial Transport in Axons. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 123. | 1.8 | 25 |
| 282 | Organelle-Specific Sensors for Monitoring Ca ²⁺ Dynamics in Neurons. <i>Frontiers in Synaptic Neuroscience</i> , 2016, 8, 29. | 1.3 | 16 |
| 283 | Mitochondria and Synaptic Plasticity in the Mature and Aging Nervous System. <i>Current Neuropharmacology</i> , 2017, 15, 166-173. | 1.4 | 156 |
| 284 | Alzheimer's Disease: From Mitochondrial Perturbations to Mitochondrial Medicine. <i>Brain Pathology</i> , 2016, 26, 632-647. | 2.1 | 53 |
| 285 | Physical Exercise and Brain Mitochondrial Fitness: The Possible Role Against Alzheimer's Disease. <i>Brain Pathology</i> , 2016, 26, 648-663. | 2.1 | 73 |
| 286 | Mitochondrial dysfunction in bipolar disorder: Evidence, pathophysiology and translational implications. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 694-713. | 2.9 | 121 |
| 287 | Attention deficit-hyperactivity disorder suffers from mitochondrial dysfunction. <i>BBA Clinical</i> , 2016, 6, 153-158. | 4.1 | 38 |
| 288 | Proteomic analysis of the postsynaptic density implicates synaptic function and energy pathways in bipolar disorder. <i>Translational Psychiatry</i> , 2016, 6, e959-e959. | 2.4 | 49 |
| 289 | Mitochondrial morphology and cellular distribution are altered in SPG31 patients and are linked to DRP1 hyperphosphorylation. <i>Human Molecular Genetics</i> , 2016, 26, ddw425. | 1.4 | 26 |
| 290 | Recent advances in amyotrophic lateral sclerosis. <i>Journal of Neurology</i> , 2016, 263, 1241-1254. | 1.8 | 67 |
| 291 | A new method for quantifying mitochondrial axonal transport. <i>Protein and Cell</i> , 2016, 7, 804-819. | 4.8 | 26 |
| 292 | Metabolic reprogramming during neuronal differentiation. <i>Cell Death and Differentiation</i> , 2016, 23, 1502-1514. | 5.0 | 193 |
| 293 | VDAC1-interacting anion transport inhibitors inhibit VDAC1 oligomerization and apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1612-1623. | 1.9 | 57 |
| 294 | Ursolic acid regulates aging process through enhancing of metabolic sensor proteins level. <i>Biomedicine and Pharmacotherapy</i> , 2016, 82, 8-14. | 2.5 | 19 |
| 295 | Cellular Ageing and Replicative Senescence. <i>Healthy Ageing and Longevity</i> , 2016, , . | 0.2 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 296 | Implications of Cellular Senescence on Aging and Disease in the Brain. <i>Healthy Ageing and Longevity</i> , 2016, , 263-286. | 0.2 | 0 |
| 297 | Development and Dynamic Regulation of Mitochondrial Network in Human Midbrain Dopaminergic Neurons Differentiated from iPSCs. <i>Stem Cell Reports</i> , 2016, 7, 678-692. | 2.3 | 30 |
| 298 | Cytotoxicity of lipid-soluble ginseng extracts is attenuated by plasma membrane redox enzyme NQO1 through maintaining redox homeostasis and delaying apoptosis in human neuroblastoma cells. <i>Archives of Pharmacal Research</i> , 2016, 39, 1339-1348. | 2.7 | 9 |
| 299 | Effects of Grape Skin Extract on Age-Related Mitochondrial Dysfunction, Memory and Life Span in C57BL/6J Mice. <i>NeuroMolecular Medicine</i> , 2016, 18, 378-395. | 1.8 | 20 |
| 300 | Antidepressant Action on Mitochondrial Dysfunction in Psychiatric Disorders. <i>Drug Development Research</i> , 2016, 77, 400-406. | 1.4 | 49 |
| 301 | Amyloid β oligomers elicit mitochondrial transport defects and fragmentation in a time-dependent and pathway-specific manner. <i>Molecular Brain</i> , 2016, 9, 79. | 1.3 | 45 |
| 302 | Amyloid β -peptides interfere with mitochondrial preprotein import competence by a coaggregation process. <i>Molecular Biology of the Cell</i> , 2016, 27, 3257-3272. | 0.9 | 87 |
| 303 | Stress and corticosteroids regulate rat hippocampal mitochondrial DNA gene expression via the glucocorticoid receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9099-9104. | 3.3 | 118 |
| 304 | A cannabinoid link between mitochondria and memory. <i>Nature</i> , 2016, 539, 555-559. | 13.7 | 331 |
| 305 | Extracellular vesicle-associated $A\beta$ mediates trans-neuronal bioenergetic and Ca^{2+} -handling deficits in Alzheimer's disease models. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, . | 4.5 | 102 |
| 306 | Novel Targets for Drug Treatment in Psychiatry. , 2016, , 601-654. | | 0 |
| 307 | Alterations in Prefrontal Cortical Circuitry and Cognitive Dysfunction in Schizophrenia. <i>Nebraska Symposium on Motivation</i> , 2016, 63, 31-75. | 0.9 | 10 |
| 308 | Effects of Long-Term Rice Bran Extract Supplementation on Survival, Cognition and Brain Mitochondrial Function in Aged NMRI Mice. <i>NeuroMolecular Medicine</i> , 2016, 18, 347-363. | 1.8 | 19 |
| 309 | Mitochondrial drug targets in neurodegenerative diseases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 714-720. | 1.0 | 23 |
| 310 | Effects of Creatine Monohydrate Augmentation on Brain Metabolic and Network Outcome Measures in Women With Major Depressive Disorder. <i>Biological Psychiatry</i> , 2016, 80, 439-447. | 0.7 | 58 |
| 311 | Modulation of mitochondrial dysfunction in neurodegenerative diseases via activation of nuclear factor erythroid-2-related factor 2 by food-derived compounds. <i>Pharmacological Research</i> , 2016, 103, 80-94. | 3.1 | 78 |
| 312 | Blocking mPTP on Neural Stem Cells and Activating the Nicotinic Acetylcholine Receptor $\beta 7$ Subunit on Microglia Attenuate $A\beta$ -Induced Neurotoxicity on Neural Stem Cells. <i>Neurochemical Research</i> , 2016, 41, 1483-1495. | 1.6 | 7 |
| 313 | Thiodorexin-2 overexpression fails to rescue chronic high calorie diet induced hippocampal dysfunction. <i>Experimental Neurology</i> , 2016, 275, 126-132. | 2.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 314 | Brain cortex mitochondrial bioenergetics in synaptosomes and non-synaptic mitochondria during aging. <i>Neurochemical Research</i> , 2016, 41, 353-363. | 1.6 | 57 |
| 315 | BDNF pathway is involved in the protective effects of SS-31 on isoflurane-induced cognitive deficits in aging mice. <i>Behavioural Brain Research</i> , 2016, 305, 115-121. | 1.2 | 48 |
| 316 | The effect of chronic tianeptine administration on the brain mitochondria: direct links with an animal model of depression. <i>Molecular Neurobiology</i> , 2016, 53, 7351-7362. | 1.9 | 21 |
| 317 | The HIV Protein gp120 Alters Mitochondrial Dynamics in Neurons. <i>Neurotoxicity Research</i> , 2016, 29, 583-593. | 1.3 | 77 |
| 318 | Drugs related to monoamine oxidase activity. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 69, 112-124. | 2.5 | 60 |
| 319 | The polyphenols resveratrol and epigallocatechin-3-gallate restore the severe impairment of mitochondria in hippocampal progenitor cells from a Down syndrome mouse model. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1093-1104. | 1.8 | 96 |
| 320 | Hydrogen Sulfide Selectively Inhibits β -Secretase Activity and Decreases Mitochondrial $A\beta$ Production in Neurons from APP/PS1 Transgenic Mice. <i>Neurochemical Research</i> , 2016, 41, 1145-1159. | 1.6 | 8 |
| 321 | Mitochondrial SIRT3 Mediates Adaptive Responses of Neurons to Exercise and Metabolic and Excitatory Challenges. <i>Cell Metabolism</i> , 2016, 23, 128-142. | 7.2 | 286 |
| 322 | Dietary fructose aggravates the pathobiology of traumatic brain injury by influencing energy homeostasis and plasticity. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 941-953. | 2.4 | 49 |
| 323 | Mitochondrial fusion/fission dynamics in neurodegeneration and neuronal plasticity. <i>Neurobiology of Disease</i> , 2016, 90, 3-19. | 2.1 | 266 |
| 324 | Mitochondrial dysfunction: the missing link between aging and sporadic Alzheimer's disease. <i>Biogerontology</i> , 2016, 17, 281-296. | 2.0 | 149 |
| 325 | The impact of mitochondrial aldehyde dehydrogenase (ALDH2) activation by Alda-1 on the behavioral and biochemical disturbances in animal model of depression. <i>Brain, Behavior, and Immunity</i> , 2016, 51, 144-153. | 2.0 | 27 |
| 326 | Sex hormone-related neurosteroids differentially rescue bioenergetic deficits induced by amyloid- β or hyperphosphorylated tau protein. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 201-215. | 2.4 | 79 |
| 327 | Melatonin: A Potential Anti-Oxidant Therapeutic Agent for Mitochondrial Dysfunctions and Related Disorders. <i>Rejuvenation Research</i> , 2016, 19, 21-40. | 0.9 | 60 |
| 328 | Transcriptional profiling of mitochondria associated genes in prefrontal cortex of subjects with major depressive disorder. <i>World Journal of Biological Psychiatry</i> , 2017, 18, 592-603. | 1.3 | 31 |
| 329 | mtDNA Heteroplasmy in Monozygotic Twins Discordant for Schizophrenia. <i>Molecular Neurobiology</i> , 2017, 54, 4343-4352. | 1.9 | 12 |
| 330 | Increased pregenual anterior cingulate glucose and lactate concentrations in major depressive disorder. <i>Molecular Psychiatry</i> , 2017, 22, 113-119. | 4.1 | 54 |
| 331 | Mitochondria as a target for neuroprotection: implications for Alzheimer's disease. <i>Expert Review of Neurotherapeutics</i> , 2017, 17, 77-91. | 1.4 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 332 | Assessing light-independent effects of hypericin on cell viability, ultrastructure and metabolism in human glioma and endothelial cells. <i>Toxicology in Vitro</i> , 2017, 40, 184-195. | 1.1 | 25 |
| 333 | Axonal Endoplasmic Reticulum Ca ²⁺ Content Controls Release Probability in CNS Nerve Terminals. <i>Neuron</i> , 2017, 93, 867-881.e6. | 3.8 | 215 |
| 334 | Comparison of the glycopattern alterations of mitochondrial proteins in cerebral cortex between rat Alzheimer's disease and the cerebral ischemia model. <i>Scientific Reports</i> , 2017, 7, 39948. | 1.6 | 9 |
| 335 | A model of the mitochondrial basis of bipolar disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 74, 1-20. | 2.9 | 118 |
| 336 | The Interplay of Axonal Energy Homeostasis and Mitochondrial Trafficking and Anchoring. <i>Trends in Cell Biology</i> , 2017, 27, 403-416. | 3.6 | 158 |
| 337 | Pregnenolone blocks cannabinoid-induced acute psychotic-like states in mice. <i>Molecular Psychiatry</i> , 2017, 22, 1594-1603. | 4.1 | 50 |
| 338 | Biogenetic and morphofunctional heterogeneity of mitochondria: the case of synaptic mitochondria. <i>Reviews in the Neurosciences</i> , 2017, 28, 363-373. | 1.4 | 32 |
| 339 | Loss of forebrain MTCH2 decreases mitochondria motility and calcium handling and impairs hippocampal-dependent cognitive functions. <i>Scientific Reports</i> , 2017, 7, 44401. | 1.6 | 35 |
| 340 | Developmental changes in trak-mediated mitochondrial transport in neurons. <i>Molecular and Cellular Neurosciences</i> , 2017, 80, 134-147. | 1.0 | 20 |
| 341 | Olfactory bulbectomy in mice triggers transient and long-lasting behavioral impairments and biochemical hippocampal disturbances. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 76, 1-11. | 2.5 | 26 |
| 342 | Mitophagy and Alzheimer's Disease: Cellular and Molecular Mechanisms. <i>Trends in Neurosciences</i> , 2017, 40, 151-166. | 4.2 | 553 |
| 343 | Brain aging and neurodegeneration: from a mitochondrial point of view. <i>Journal of Neurochemistry</i> , 2017, 143, 418-431. | 2.1 | 402 |
| 344 | Estimation of the mitochondrial calcium pool in rat brain synaptosomes using Rhod-2 AM fluorescent dye. <i>Biophysics (Russian Federation)</i> , 2017, 62, 75-78. | 0.2 | 2 |
| 345 | Development or disease: duality of the mitochondrial permeability transition pore. <i>Developmental Biology</i> , 2017, 426, 1-7. | 0.9 | 104 |
| 346 | Adaptive responses of neuronal mitochondria to bioenergetic challenges: Roles in neuroplasticity and disease resistance. <i>Free Radical Biology and Medicine</i> , 2017, 102, 203-216. | 1.3 | 184 |
| 347 | Reversible Disruption of Neuronal Mitochondria by Ischemic and Traumatic Injury Revealed by Quantitative Two-Photon Imaging in the Neocortex of Anesthetized Mice. <i>Journal of Neuroscience</i> , 2017, 37, 333-348. | 1.7 | 50 |
| 348 | Tauroursodeoxycholic Acid Enhances Mitochondrial Biogenesis, Neural Stem Cell Pool, and Early Neurogenesis in Adult Rats. <i>Molecular Neurobiology</i> , 2018, 55, 3725-3738. | 1.9 | 23 |
| 349 | Deleterious variants in TRAK1 disrupt mitochondrial movement and cause fatal encephalopathy. <i>Brain</i> , 2017, 140, 568-581. | 3.7 | 53 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 350 | IGF-II promotes neuroprotection and neuroplasticity recovery in a long-lasting model of oxidative damage induced by glucocorticoids. <i>Redox Biology</i> , 2017, 13, 69-81. | 3.9 | 44 |
| 352 | Single-Particle Tracking Reveals a Dynamic Role of Actin Filaments in Assisting Long-Range Axonal Transport in Neurons. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 714-719. | 2.0 | 0 |
| 353 | BID links ferroptosis to mitochondrial cell death pathways. <i>Redox Biology</i> , 2017, 12, 558-570. | 3.9 | 245 |
| 354 | Phospholipids in mitochondrial dysfunction during hemorrhagic shock. <i>Journal of Bioenergetics and Biomembranes</i> , 2017, 49, 121-129. | 1.0 | 5 |
| 355 | Sonic hedgehog pathway activation increases mitochondrial abundance and activity in hippocampal neurons. <i>Molecular Biology of the Cell</i> , 2017, 28, 387-395. | 0.9 | 39 |
| 356 | Allopregnanolone and its analog BR 297 rescue neuronal cells from oxidative stress-induced death through bioenergetic improvement. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 631-642. | 1.8 | 30 |
| 357 | Inhibition of Drp1-mediated mitochondrial fission improves mitochondrial dynamics and bioenergetics stimulating neurogenesis in hippocampal progenitor cells from a Down syndrome mouse model. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 3117-3127. | 1.8 | 37 |
| 358 | Activation of cannabinoid receptor 1 is involved in protection against mitochondrial dysfunction and cerebral ischaemic tolerance induced by isoflurane preconditioning. <i>British Journal of Anaesthesia</i> , 2017, 119, 1213-1223. | 1.5 | 16 |
| 359 | Linking Mitochondria and Synaptic Transmission: The CB1 Receptor. <i>BioEssays</i> , 2017, 39, 1700126. | 1.2 | 36 |
| 360 | Novel biomarkers of metabolic dysfunction in autism spectrum disorder: potential for biological diagnostic markers. <i>Metabolic Brain Disease</i> , 2017, 32, 1983-1997. | 1.4 | 66 |
| 361 | Real-time subpixel-accuracy tracking of single mitochondria in neurons reveals heterogeneous mitochondrial motion. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 776-782. | 1.0 | 20 |
| 363 | Mitochondrial impairments contribute to spatial learning and memory dysfunction induced by chronic tramadol administration in rat: Protective effect of physical exercise. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 79, 426-433. | 2.5 | 30 |
| 364 | Melatonin, mitochondria and hypertension. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3955-3964. | 2.4 | 51 |
| 365 | Mitochondrial bioenergetics decay in aging: beneficial effect of melatonin. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3897-3911. | 2.4 | 48 |
| 366 | Functional Analysis of Mitochondrial CB1 Cannabinoid Receptors (mtCB1) in the Brain. <i>Methods in Enzymology</i> , 2017, 593, 143-174. | 0.4 | 22 |
| 367 | Evolution of Human Sex-Specific Cognitive Vulnerabilities. <i>Quarterly Review of Biology</i> , 2017, 92, 361-410. | 0.0 | 10 |
| 368 | ROS Control Mitochondrial Motility through p38 and the Motor Adaptor Miro/Trak. <i>Cell Reports</i> , 2017, 21, 1667-1680. | 2.9 | 100 |
| 369 | Huntington's Disease and Mitochondria. <i>Neurotoxicity Research</i> , 2017, 32, 518-529. | 1.3 | 103 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 370 | Human Immunodeficiency Virus Promotes Mitochondrial Toxicity. <i>Neurotoxicity Research</i> , 2017, 32, 723-733. | 1.3 | 47 |
| 371 | Adolescent Binge Alcohol Exposure Affects the Brain Function Through Mitochondrial Impairment. <i>Molecular Neurobiology</i> , 2017, 55, 4473-4491. | 1.9 | 31 |
| 372 | Chronic nicotine differentially affects murine transcriptome profiling in isolated cortical interneurons and pyramidal neurons. <i>BMC Genomics</i> , 2017, 18, 194. | 1.2 | 7 |
| 373 | Mitochondrial multifaceted dysfunction in schizophrenia; complex I as a possible pathological target. <i>Schizophrenia Research</i> , 2017, 187, 3-10. | 1.1 | 76 |
| 374 | The Neurobiology of Depression: an Integrated Overview from Biological Theories to Clinical Evidence. <i>Molecular Neurobiology</i> , 2017, 54, 4847-4865. | 1.9 | 138 |
| 375 | Calcium in the pathomechanism of amyotrophic lateral sclerosis â€œ Taking center stage?. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1031-1039. | 1.0 | 16 |
| 376 | DNP, mitochondrial uncoupling, and neuroprotection: A little dab'll do ya. <i>Alzheimer's and Dementia</i> , 2017, 13, 582-591. | 0.4 | 81 |
| 377 | DNA polymerase β decrement triggers death of olfactory bulb cells and impairs olfaction in a mouse model of Alzheimer's disease. <i>Aging Cell</i> , 2017, 16, 162-172. | 3.0 | 38 |
| 378 | Sonic hedgehog promotes neurite outgrowth of cortical neurons under oxidative stress: Involving of mitochondria and energy metabolism. <i>Experimental Cell Research</i> , 2017, 350, 83-90. | 1.2 | 27 |
| 379 | Cytochrome b5 protects photoreceptors from light stress-induced lipid peroxidation and retinal degeneration. <i>Npj Aging and Mechanisms of Disease</i> , 2017, 3, 18. | 4.5 | 36 |
| 381 | P7C3 Suppresses Neuroinflammation and Protects Retinal Ganglion Cells of Rats from Optic Nerve Crush. , 2017, 58, 4877. | | 13 |
| 382 | Inhibitory Effect of Lycopene on Amyloid- β -Induced Apoptosis in Neuronal Cells. <i>Nutrients</i> , 2017, 9, 883. | 1.7 | 71 |
| 383 | Mitochondria, Bioenergetics and Excitotoxicity: New Therapeutic Targets in Perinatal Brain Injury. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 199. | 1.8 | 43 |
| 384 | Mitophagy in Parkinson's Disease: Pathogenic and Therapeutic Implications. <i>Frontiers in Neurology</i> , 2017, 8, 527. | 1.1 | 77 |
| 385 | Metabolic Dysfunction Underlying Autism Spectrum Disorder and Potential Treatment Approaches. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 34. | 1.4 | 96 |
| 386 | APPâ€™ A Novel Player within the Presynaptic Active Zone Proteome. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 43. | 1.4 | 14 |
| 387 | Chronic Oxidative Stress, Mitochondrial Dysfunction, Nrf2 Activation and Inflammation in the Hippocampus Accompany Heightened Systemic Inflammation and Oxidative Stress in an Animal Model of Gulf War Illness. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 182. | 1.4 | 89 |
| 388 | Ribosomal Protein S6 Phosphorylation Is Involved in Novelty-Induced Locomotion, Synaptic Plasticity and mRNA Translation. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 419. | 1.4 | 37 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 389 | APP Deletion Accounts for Age-Dependent Changes in the Bioenergetic Metabolism and in Hyperphosphorylated CaMKII at Stimulated Hippocampal Presynaptic Active Zones. <i>Frontiers in Synaptic Neuroscience</i> , 2017, 9, 1. | 1.3 | 12 |
| 390 | Voltage-Dependent Anion Channel 1 As an Emerging Drug Target for Novel Anti-Cancer Therapeutics. <i>Frontiers in Oncology</i> , 2017, 7, 154. | 1.3 | 89 |
| 391 | Slower Dynamics and Aged Mitochondria in Sporadic Alzheimer's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14. | 1.9 | 95 |
| 392 | Lifestyle Modulators of Neuroplasticity: How Physical Activity, Mental Engagement, and Diet Promote Cognitive Health during Aging. <i>Neural Plasticity</i> , 2017, 2017, 1-22. | 1.0 | 168 |
| 393 | Involvement of impaired autophagy and mitophagy in Neuro-2a cell damage under hypoxic and/or high-glucose conditions. <i>Scientific Reports</i> , 2018, 8, 3301. | 1.6 | 28 |
| 394 | Mitochondrial Function, Dynamics, and Permeability Transition: A Complex Love Triangle as A Possible Target for the Treatment of Brain Aging and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018, 64, S455-S467. | 1.2 | 30 |
| 395 | A Critical Role of Mitochondria in BDNF-Associated Synaptic Plasticity After One-Week Vortioxetine Treatment. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 603-615. | 1.0 | 16 |
| 396 | Mapping pathologic circuitry in schizophrenia. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 150, 389-417. | 1.0 | 44 |
| 397 | Novel insights into mitochondrial molecular targets of iron-induced neurodegeneration: Reversal by cannabidiol. <i>Brain Research Bulletin</i> , 2018, 139, 1-8. | 1.4 | 38 |
| 398 | Human immunodeficiency virus Tat impairs mitochondrial fission in neurons. <i>Cell Death Discovery</i> , 2018, 4, 8. | 2.0 | 44 |
| 399 | Astrocytes Attenuate Mitochondrial Dysfunctions in Human Dopaminergic Neurons Derived from iPSC. <i>Stem Cell Reports</i> , 2018, 10, 366-374. | 2.3 | 43 |
| 400 | Understanding Miro GTPases: Implications in the Treatment of Neurodegenerative Disorders. <i>Molecular Neurobiology</i> , 2018, 55, 7352-7365. | 1.9 | 31 |
| 401 | Potential for diet to prevent and remediate cognitive deficits in neurological disorders. <i>Nutrition Reviews</i> , 2018, 76, 204-217. | 2.6 | 31 |
| 402 | Metabolomics as a Tool to Understand Pathophysiological Processes. <i>Methods in Molecular Biology</i> , 2018, 1730, 3-28. | 0.4 | 27 |
| 403 | The use of quetiapine in the treatment of major depressive disorder: Evidence from clinical and experimental studies. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 86, 36-50. | 2.9 | 20 |
| 404 | Brain Photobiomodulation Therapy: a Narrative Review. <i>Molecular Neurobiology</i> , 2018, 55, 6601-6636. | 1.9 | 294 |
| 405 | High content image analysis reveals function of miR-124 upstream of Vimentin in regulating motor neuron mitochondria. <i>Scientific Reports</i> , 2018, 8, 59. | 1.6 | 30 |
| 406 | The potential benefit of combined versus monotherapy of coenzyme Q10 and fluoxetine on depressive-like behaviors and intermediates coupled to Gsk-3 β in rats. <i>Toxicology and Applied Pharmacology</i> , 2018, 340, 39-48. | 1.3 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 407 | Alzheimer's Disease: From Firing Instability to Homeostasis Network Collapse. <i>Neuron</i> , 2018, 97, 32-58. | 3.8 | 188 |
| 408 | Mitochondria Are Critical for BDNF-Mediated Synaptic and Vascular Plasticity of Hippocampus following Repeated Electroconvulsive Seizures. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 291-304. | 1.0 | 23 |
| 409 | Amyloid β -induced impairments on mitochondrial dynamics, hippocampal neurogenesis, and memory are restored by phosphodiesterase 7 inhibition. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 24. | 3.0 | 64 |
| 410 | Mitochondrial cAMP-PKA signaling: What do we really know?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 868-877. | 0.5 | 101 |
| 411 | Physical exercise prevents cognitive impairment by enhancing hippocampal neuroplasticity and mitochondrial function in doxorubicin-induced chemobrain. <i>Neuropharmacology</i> , 2018, 133, 451-461. | 2.0 | 86 |
| 412 | VDAC1, mitochondrial dysfunction, and Alzheimer's disease. <i>Pharmacological Research</i> , 2018, 131, 87-101. | 3.1 | 153 |
| 413 | Differentiation by nerve growth factor (NGF) involves mechanisms of crosstalk between energy homeostasis and mitochondrial remodeling. <i>Cell Death and Disease</i> , 2018, 9, 391. | 2.7 | 53 |
| 414 | VDAC1 functions in Ca ²⁺ homeostasis and cell life and death in health and disease. <i>Cell Calcium</i> , 2018, 69, 81-100. | 1.1 | 100 |
| 415 | 5-HT _{1F} receptor-mediated mitochondrial biogenesis for the treatment of Parkinson's disease. <i>British Journal of Pharmacology</i> , 2018, 175, 348-358. | 2.7 | 31 |
| 416 | Genes Linking Mitochondrial Function, Cognitive Impairment and Depression are Associated with Endophenotypes Serving Precision Medicine. <i>Neuroscience</i> , 2018, 370, 207-217. | 1.1 | 46 |
| 417 | CB1 Receptor Signaling in the Brain: Extracting Specificity from Ubiquity. <i>Neuropsychopharmacology</i> , 2018, 43, 4-20. | 2.8 | 223 |
| 418 | Our (Mother's) Mitochondria and Our Mind. <i>Perspectives on Psychological Science</i> , 2018, 13, 88-100. | 5.2 | 44 |
| 419 | Mitochondrial Etiology of Neuropsychiatric Disorders. <i>Biological Psychiatry</i> , 2018, 83, 722-730. | 0.7 | 121 |
| 420 | Cold-Water Immersion Has No Effect on Muscle Stiffness After Exercise-Induced Muscle Damage. <i>Clinical Journal of Sport Medicine</i> , 2018, Publish Ahead of Print, 533-538. | 0.9 | 2 |
| 421 | Human Miro Proteins Act as NTP Hydrolases through a Novel, Non-Canonical Catalytic Mechanism. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3839. | 1.8 | 13 |
| 422 | Proteolytic cleavage of Beclin 1 exacerbates neurodegeneration. <i>Molecular Neurodegeneration</i> , 2018, 13, 68. | 4.4 | 21 |
| 423 | The Role of Mitochondria in Reactive Oxygen Species Generation and Its Implications for Neurodegenerative Diseases. <i>Cells</i> , 2018, 7, 274. | 1.8 | 205 |
| 424 | Deformation of Mitochondrial Cristae in Human Neural Progenitor Cells Exposed to Valproic Acid. <i>Anais Da Academia Brasileira De Ciencias</i> , 2018, 90, 2223-2232. | 0.3 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 425 | Ischemic postconditioning confers cerebroprotection by stabilizing VDACs after brain ischemia. <i>Cell Death and Disease</i> , 2018, 9, 1033. | 2.7 | 25 |
| 426 | Putative Inflammatory Sensitive Mechanisms Underlying Risk or Resilience to Social Stress. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 240. | 1.0 | 26 |
| 427 | Da-Bu-Yin-Wan Improves the Ameliorative Effect of DJ-1 on Mitochondrial Dysfunction Through Augmenting the Akt Phosphorylation in a Cellular Model of Parkinson's Disease. <i>Frontiers in Pharmacology</i> , 2018, 9, 1206. | 1.6 | 21 |
| 428 | Hydroxyurea attenuates oxidative, metabolic, and excitotoxic stress in rat hippocampal neurons and improves spatial memory in a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2018, 72, 121-133. | 1.5 | 19 |
| 429 | Amelioration of oxidative stress in differentiated neuronal cells by rutin regulated by a concentration switch. <i>Biomedicine and Pharmacotherapy</i> , 2018, 108, 15-26. | 2.5 | 21 |
| 430 | Mitochondrial permeability transition pore contributes to mitochondrial dysfunction in fibroblasts of patients with sporadic Alzheimer's disease. <i>Redox Biology</i> , 2018, 19, 290-300. | 3.9 | 64 |
| 431 | Spatially Restricting Bioorthogonal Nucleoside Biosynthesis Enables Selective Metabolic Labeling of the Mitochondrial Transcriptome. <i>ACS Chemical Biology</i> , 2018, 13, 1474-1479. | 1.6 | 9 |
| 432 | Exosomal transfer of mitochondria from airway myeloid-derived regulatory cells to T cells. <i>Redox Biology</i> , 2018, 18, 54-64. | 3.9 | 130 |
| 433 | Reaction-Based Color-Convertible Fluorescent Probe for Ferroptosis Identification. <i>Analytical Chemistry</i> , 2018, 90, 9218-9225. | 3.2 | 31 |
| 434 | Triterpenic Acids from <i>Potentilla parvifolia</i> and Their Protective Effects against Okadaic Acid Induced Neurotoxicity in Differentiated SH-SY5Y Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 885-890. | 0.6 | 9 |
| 436 | Synaptic Mitochondria are More Susceptible to Traumatic Brain Injury-induced Oxidative Damage and Respiratory Dysfunction than Non-synaptic Mitochondria. <i>Neuroscience</i> , 2018, 386, 265-283. | 1.1 | 44 |
| 437 | Mitochondrial accumulation of amyloid $A\beta$ peptides requires TOMM22 as a main $A\beta$ receptor in yeast. <i>Journal of Biological Chemistry</i> , 2018, 293, 12681-12689. | 1.6 | 33 |
| 438 | Genetic association of the cytochrome c oxidase-related genes with Alzheimer's disease in Han Chinese. <i>Neuropsychopharmacology</i> , 2018, 43, 2264-2276. | 2.8 | 29 |
| 439 | Sex-associated differences in mitochondrial function in human peripheral blood mononuclear cells (PBMCs) and brain. <i>Biology of Sex Differences</i> , 2018, 9, 34. | 1.8 | 75 |
| 440 | Cannabinoid Receptors and the Endocannabinoid System: Signaling and Function in the Central Nervous System. <i>International Journal of Molecular Sciences</i> , 2018, 19, 833. | 1.8 | 770 |
| 441 | The TRPM2 channel nexus from oxidative damage to Alzheimer's pathologies: An emerging novel intervention target for age-related dementia. <i>Ageing Research Reviews</i> , 2018, 47, 67-79. | 5.0 | 39 |
| 442 | Contribution of Tau Pathology to Mitochondrial Impairment in Neurodegeneration. <i>Frontiers in Neuroscience</i> , 2018, 12, 441. | 1.4 | 99 |
| 443 | An investigation into closed-loop treatment of neurological disorders based on sensing mitochondrial dysfunction. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 8. | 2.4 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 444 | Î”9-tetrahydrocannabinol modulates the proteasome system in the brain. <i>Biochemical Pharmacology</i> , 2018, 157, 159-168. | 2.0 | 11 |
| 445 | Links Between Obesity-Induced Brain Insulin Resistance, Brain Mitochondrial Dysfunction, and Dementia. <i>Frontiers in Endocrinology</i> , 2018, 9, 496. | 1.5 | 111 |
| 446 | Sweet Mitochondria: A Shortcut to Alzheimer’s Disease. <i>Journal of Alzheimer’s Disease</i> , 2018, 62, 1391-1401. | 1.2 | 18 |
| 447 | Hallmarks of Brain Aging: Adaptive and Pathological Modification by Metabolic States. <i>Cell Metabolism</i> , 2018, 27, 1176-1199. | 7.2 | 721 |
| 448 | Dietary Micronutrients Promote Neuronal Differentiation by Modulating the Mitochondrial–Nuclear Dialogue. <i>BioEssays</i> , 2018, 40, e1800051. | 1.2 | 7 |
| 449 | Mutations in THAP1/DYT6 reveal that diverse dystonia genes disrupt similar neuronal pathways and functions. <i>PLoS Genetics</i> , 2018, 14, e1007169. | 1.5 | 61 |
| 450 | Evolutionary perspective on sex differences in the expression of neurological diseases. <i>Progress in Neurobiology</i> , 2019, 176, 33-53. | 2.8 | 8 |
| 451 | High fat diet deteriorates the memory impairment induced by arsenic in mice: a sub chronic in vivo study. <i>Metabolic Brain Disease</i> , 2019, 34, 1595-1606. | 1.4 | 9 |
| 452 | Tianeptine, an atypical pharmacological approach to depression. <i>Revista De Psiquiatria Y Salud Mental (English Edition)</i> , 2019, 12, 170-186. | 0.2 | 9 |
| 453 | Pleiotropic Mitochondria: The Influence of Mitochondria on Neuronal Development and Disease. <i>Journal of Neuroscience</i> , 2019, 39, 8200-8208. | 1.7 | 124 |
| 454 | Biological, Diagnostic and Therapeutic Advances in Alzheimer’s Disease. , 2019, , . | | 6 |
| 455 | Endoplasmic reticulum–mitochondria crosstalk: from junction to function across neurological disorders. <i>Annals of the New York Academy of Sciences</i> , 2019, 1457, 41-60. | 1.8 | 64 |
| 456 | Perturbations in RhoA signalling cause altered migration and impaired neuritogenesis in human iPSC-derived neural cells with PARK2 mutation. <i>Neurobiology of Disease</i> , 2019, 132, 104581. | 2.1 | 32 |
| 457 | Physical exercise ameliorates psychiatric disorders and cognitive dysfunctions by hippocampal mitochondrial function and neuroplasticity in post-traumatic stress disorder. <i>Experimental Neurology</i> , 2019, 322, 113043. | 2.0 | 23 |
| 458 | NAD+ in Brain Aging and Neurodegenerative Disorders. <i>Cell Metabolism</i> , 2019, 30, 630-655. | 7.2 | 412 |
| 459 | Sex-dependent and chronic alterations in behavior and mitochondrial function in a rat model of pediatric mild traumatic brain injury. <i>Brain Injury</i> , 2019, 33, 534-542. | 0.6 | 10 |
| 460 | Esculetin improves cognitive impairments induced by transient cerebral ischaemia and reperfusion in mice via regulation of mitochondrial fragmentation and mitophagy. <i>Behavioural Brain Research</i> , 2019, 372, 112007. | 1.2 | 28 |
| 461 | Oxidative Stress in Neurodegenerative Diseases: From a Mitochondrial Point of View. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-18. | 1.9 | 311 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 462 | Environmental temperature variation affects brain protein expression and cognitive abilities in adult zebrafish (<i>Danio rerio</i>): A proteomic and behavioural study. <i>Journal of Proteomics</i> , 2019, 204, 103396. | 1.2 | 47 |
| 463 | Mitochondria and the Brain: Bioenergetics and Beyond. <i>Neurotoxicity Research</i> , 2019, 36, 219-238. | 1.3 | 41 |
| 464 | Risks of cognitive detriments after low dose heavy ion and proton exposures. <i>International Journal of Radiation Biology</i> , 2019, 95, 985-998. | 1.0 | 51 |
| 465 | <p>PINK1 mediates spinal cord mitophagy in neuropathic pain</p>. <i>Journal of Pain Research</i> , 2019, Volume 12, 1685-1699. | 0.8 | 15 |
| 466 | Association between autophagy and rapid eye movement sleep loss-associated neurodegenerative and patho-physio-behavioral changes. <i>Sleep Medicine</i> , 2019, 63, 29-37. | 0.8 | 24 |
| 467 | HIV-1 infection alters energy metabolism in the brain: Contributions to HIV-associated neurocognitive disorders. <i>Progress in Neurobiology</i> , 2019, 181, 101616. | 2.8 | 38 |
| 468 | Serotonin regulates mitochondrial biogenesis and function in rodent cortical neurons via the 5-HT _{2A} receptor and SIRT1–PGC-1– axis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11028-11037. | 3.3 | 109 |
| 469 | Making sense of gut feelings in the traumatic brain injury pathogenesis. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 102, 345-361. | 2.9 | 28 |
| 470 | Neuronal Cells Rearrangement During Aging and Neurodegenerative Disease: Metabolism, Oxidative Stress and Organelles Dynamic. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 132. | 1.4 | 148 |
| 471 | Electroacupuncture Improves Antidepressant Effects in CUMS Rats by Protecting Hippocampal Synapse and Mitochondrion: An Ultrastructural and iTRAQ Proteomic Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-11. | 0.5 | 3 |
| 472 | SIRT3 mediates hippocampal synaptic adaptations to intermittent fasting and ameliorates deficits in APP mutant mice. <i>Nature Communications</i> , 2019, 10, 1886. | 5.8 | 114 |
| 473 | Effects of estrogens and androgens on mitochondria under normal and pathological conditions. <i>Progress in Neurobiology</i> , 2019, 176, 54-72. | 2.8 | 13 |
| 474 | Novel therapeutic strategies for stroke: The role of autophagy. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 182-199. | 2.7 | 40 |
| 475 | Neuroprotection of multifunctional phytochemicals as novel therapeutic strategy for neurodegenerative disorders: antiapoptotic and antiamyloidogenic activities by modulation of cellular signal pathways. <i>Future Neurology</i> , 2019, 14, FNL9. | 0.9 | 48 |
| 476 | Treadmill Exercise Ameliorates Depression-Like Behavior in the Rats With Prenatal Dexamethasone Exposure: The Role of Hippocampal Mitochondria. <i>Frontiers in Neuroscience</i> , 2019, 13, 264. | 1.4 | 27 |
| 477 | PTCD1 Is Required for Mitochondrial Oxidative-Phosphorylation: Possible Genetic Association with Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2019, 39, 4636-4656. | 1.7 | 26 |
| 478 | Sex Differences in Traumatic Brain Injury: What We Know and What We Should Know. <i>Journal of Neurotrauma</i> , 2019, 36, 3063-3091. | 1.7 | 271 |
| 479 | A unifying hypothesis for delirium and hospital-acquired weakness as synaptic dysfunctions. <i>Medical Hypotheses</i> , 2019, 124, 105-109. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 480 | The role of mitochondrial defects and oxidative stress in Alzheimer's disease. <i>Journal of Drug Targeting</i> , 2019, 27, 932-942. | 2.1 | 25 |
| 482 | The Face of Early Cognitive Decline? Shape and Asymmetry Predict Choice Reaction Time Independent of Age, Diet or Exercise. <i>Symmetry</i> , 2019, 11, 1364. | 1.1 | 2 |
| 483 | Comparing 3D ultrastructure of presynaptic and postsynaptic mitochondria. <i>Biology Open</i> , 2019, 8, . | 0.6 | 26 |
| 484 | Human brain cell type-specific gene co-expression associated with autism spectrum disorder. , 2019, , . | | 1 |
| 485 | SIRT3 Regulation of Mitochondrial Quality Control in Neurodegenerative Diseases. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 313. | 1.7 | 73 |
| 486 | Amyloid β Peptide Compromises Neural Stem Cell Fate by Irreversibly Disturbing Mitochondrial Oxidative State and Blocking Mitochondrial Biogenesis and Dynamics. <i>Molecular Neurobiology</i> , 2019, 56, 3922-3936. | 1.9 | 35 |
| 487 | Mitochondrial localization of St14 encoding transmembrane serine protease is involved in neural stem/progenitor cell bioenergetics through binding to F ₀ F ₁ ATP synthase complex. <i>FASEB Journal</i> , 2019, 33, 4327-4340. | 0.2 | 2 |
| 488 | Tianeptina, un abordaje farmacol3gico at3pico de la depresi3n. <i>Revista De Psiquiatr3a Y Salud Mental</i> , 2019, 12, 170-186. | 1.0 | 18 |
| 489 | Calcium dysregulation mediates mitochondrial and neurite outgrowth abnormalities in SOD2 deficient embryonic cerebral cortical neurons. <i>Cell Death and Differentiation</i> , 2019, 26, 1600-1614. | 5.0 | 15 |
| 490 | Chronic Energy Depletion due to Iron Deficiency Impairs Dendritic Mitochondrial Motility during Hippocampal Neuron Development. <i>Journal of Neuroscience</i> , 2019, 39, 802-813. | 1.7 | 42 |
| 491 | Evolving and Expanding the Roles of Mitophagy as a Homeostatic and Pathogenic Process. <i>Physiological Reviews</i> , 2019, 99, 853-892. | 13.1 | 145 |
| 492 | Anti-fumarase antibody promotes the dropout of photoreceptor inner and outer segments in diabetic macular oedema. <i>Diabetologia</i> , 2019, 62, 504-516. | 2.9 | 9 |
| 493 | The Rat Prefrontal-Cortex Transcriptome: Effects of Aging and Sporadic Alzheimer's Disease-Like Pathology. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 33-43. | 1.7 | 25 |
| 494 | Therapeutic efficacy of the Ginkgo special extract EGb761 [®] within the framework of the mitochondrial cascade hypothesis of Alzheimer's disease. <i>World Journal of Biological Psychiatry</i> , 2019, 20, 173-189. | 1.3 | 45 |
| 495 | The therapeutic role of cannabinoid receptors and its agonists or antagonists in Parkinson's disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 96, 109745. | 2.5 | 21 |
| 496 | Mitochondria could be a potential key mediator linking the intestinal microbiota to depression. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 17-24. | 1.2 | 22 |
| 497 | Repeated mild traumatic brain injury induces persistent variations in mitochondrial DNA copy number in mesocorticolimbic neurocircuitry of the rat. <i>Neuroscience Research</i> , 2020, 155, 34-42. | 1.0 | 4 |
| 498 | Lycopene a bioactive carotenoid offering multiple health benefits: a review. <i>International Journal of Food Science and Technology</i> , 2020, 55, 11-32. | 1.3 | 136 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 499 | Mitophagy and Neuroprotection. Trends in Molecular Medicine, 2020, 26, 8-20. | 3.5 | 246 |
| 500 | Celastrol Inhibits Dopaminergic Neuronal Death of Parkinson's Disease through Activating Mitophagy. Antioxidants, 2020, 9, 37. | 2.2 | 57 |
| 501 | Mitophagy in Alzheimer's Disease and Other Age-Related Neurodegenerative Diseases. Cells, 2020, 9, 150. | 1.8 | 151 |
| 502 | Diabetes as a risk factor for Alzheimer's disease in the Middle East and its shared pathological mediators. Saudi Journal of Biological Sciences, 2020, 27, 736-750. | 1.8 | 53 |
| 503 | The role of inflammation and oxidative stress in depression and cardiovascular disease. , 2020, , 175-209. | | 5 |
| 504 | A review of antibiotics, depression, and the gut microbiome. Psychiatry Research, 2020, 284, 112691. | 1.7 | 70 |
| 505 | SIRT3 Haploinsufficiency Aggravates Loss of GABAergic Interneurons and Neuronal Network Hyperexcitability in an Alzheimer's Disease Model. Journal of Neuroscience, 2020, 40, 694-709. | 1.7 | 59 |
| 506 | The NAD ⁺ -mitophagy axis in healthy longevity and in artificial intelligence-based clinical applications. Mechanisms of Ageing and Development, 2020, 185, 111194. | 2.2 | 36 |
| 507 | Regulated rutin co-administration reverses mitochondrial-mediated apoptosis in Plasmodium berghei-infected mice. Biochemical and Biophysical Research Communications, 2020, 522, 328-334. | 1.0 | 12 |
| 508 | Dietary Mitophagy Enhancer: A Strategy for Healthy Brain Aging?. Antioxidants, 2020, 9, 932. | 2.2 | 35 |
| 509 | Insulin-Like Growth Factor 2 (IGF-2) Regulates Neuronal Density and IGF-2 Distribution Following Hippocampal Intracerebral Hemorrhage. Journal of Stroke and Cerebrovascular Diseases, 2020, 29, 105128. | 0.7 | 10 |
| 510 | Enhancing mitophagy as a therapeutic approach for neurodegenerative diseases. International Review of Neurobiology, 2020, 155, 169-202. | 0.9 | 20 |
| 511 | Study of mitophagy and ATP-related metabolomics based on β -amyloid levels in Alzheimer's disease. Experimental Cell Research, 2020, 396, 112266. | 1.2 | 17 |
| 512 | Low-glucose-sensitive TRPC6 dysfunction drives hypoglycemia-induced cognitive impairment in diabetes. Clinical and Translational Medicine, 2020, 10, e205. | 1.7 | 14 |
| 513 | Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies. Molecular and Cellular Neurosciences, 2020, 109, 103555. | 1.0 | 19 |
| 514 | Down Syndrome Is a Metabolic Disease: Altered Insulin Signaling Mediates Peripheral and Brain Dysfunctions. Frontiers in Neuroscience, 2020, 14, 670. | 1.4 | 48 |
| 515 | Mitochondrial Dysfunction, Neurogenesis, and Epigenetics: Putative Implications for Amyotrophic Lateral Sclerosis Neurodegeneration and Treatment. Frontiers in Neuroscience, 2020, 14, 679. | 1.4 | 38 |
| 516 | Sovateptide (IRL-1620) activates neuronal differentiation and prevents mitochondrial dysfunction in adult mammalian brains following stroke. Scientific Reports, 2020, 10, 12737. | 1.6 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 517 | Dual Oxidase Mutant Retards Mauthner-Cell Axon Regeneration at an Early Stage via Modulating Mitochondrial Dynamics in Zebrafish. <i>Neuroscience Bulletin</i> , 2020, 36, 1500-1512. | 1.5 | 10 |
| 518 | Alzheimer's Disease as a Result of Stimulus Reduction in a GABA-A-Deficient Brain: A Neurocomputational Model. <i>Neural Plasticity</i> , 2020, 2020, 1-26. | 1.0 | 3 |
| 519 | Mitochondrial Dysfunction, Oxidative Stress and Neuroinflammation in Neurodegeneration with Brain Iron Accumulation (NBIA). <i>Antioxidants</i> , 2020, 9, 1020. | 2.2 | 42 |
| 520 | Molecular and Therapeutic Aspects of Hyperbaric Oxygen Therapy in Neurological Conditions. <i>Biomolecules</i> , 2020, 10, 1247. | 1.8 | 23 |
| 521 | The Crosstalk Between Pathological Tau Phosphorylation and Mitochondrial Dysfunction as a Key to Understanding and Treating Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2020, 57, 5103-5120. | 1.9 | 26 |
| 522 | Western diet aggravates neuronal insult in post-traumatic brain injury: Proposed pathways for interplay. <i>EBioMedicine</i> , 2020, 57, 102829. | 2.7 | 28 |
| 523 | Dysfunction of Mitochondrial Ca ²⁺ Regulatory Machineries in Brain Aging and Neurodegenerative Diseases. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 599792. | 1.8 | 36 |
| 524 | Energy Metabolism Disturbances in Cell Models of PARK2 CNV Carriers with ADHD. <i>Journal of Clinical Medicine</i> , 2020, 9, 4092. | 1.0 | 7 |
| 525 | Zika Virus-Induced Neuronal Apoptosis via Increased Mitochondrial Fragmentation. <i>Frontiers in Microbiology</i> , 2020, 11, 598203. | 1.5 | 27 |
| 526 | VDAC1 at the Intersection of Cell Metabolism, Apoptosis, and Diseases. <i>Biomolecules</i> , 2020, 10, 1485. | 1.8 | 93 |
| 527 | Tauopathy-associated tau modifications selectively impact neurodegeneration and mitophagy in a novel <i>C. elegans</i> single-copy transgenic model. <i>Molecular Neurodegeneration</i> , 2020, 15, 65. | 4.4 | 35 |
| 528 | Estimating the Binding and Unbinding Rate of Motor Protein from Mitochondrial Motion. , 2020, , . | | 1 |
| 529 | Premature synaptic mitochondrial dysfunction in the hippocampus during aging contributes to memory loss. <i>Redox Biology</i> , 2020, 34, 101558. | 3.9 | 62 |
| 530 | Elucidating the pathogenic and biomarker potentials of FOXP1 in glioblastoma. <i>Oncology Reviews</i> , 2020, 14, 444. | 0.8 | 3 |
| 531 | Neuroglial transmitophagy and Parkinson's disease. <i>Glia</i> , 2020, 68, 2277-2299. | 2.5 | 47 |
| 532 | Oxidative Stress and Mitochondrial Damage in Neurodegenerative Diseases: From Molecular Mechanisms to Targeted Therapies. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-2. | 1.9 | 22 |
| 533 | A Healthy Heart and a Healthy Brain: Looking at Mitophagy. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 294. | 1.8 | 20 |
| 534 | Leukocyte mitochondrial DNA copy number in schizophrenia. <i>Asian Journal of Psychiatry</i> , 2020, 53, 102193. | 0.9 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 535 | Mitochondrial Dysfunction as a Key Event during Aging: From Synaptic Failure to Memory Loss. , 0, , . | | 7 |
| 536 | Antidepressant effects of 3-(3,4-methylenedioxy-5-trifluoromethyl phenyl)-2-propenoic acid isobutyl amide involve TSPO-mediated mitophagy signalling pathway. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020, 127, 380-388. | 1.2 | 9 |
| 537 | Mitochondrial Bioenergetics and Dynamics in Secretion Processes. <i>Frontiers in Endocrinology</i> , 2020, 11, 319. | 1.5 | 19 |
| 538 | Transcription and Beyond: Delineating FOXP1 Function in Cortical Development and Disorders. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 35. | 1.8 | 46 |
| 539 | CNTNAP4 deficiency in dopaminergic neurons initiates parkinsonian phenotypes. <i>Theranostics</i> , 2020, 10, 3000-3021. | 4.6 | 21 |
| 540 | Astrocytes rescue neuronal health after cisplatin treatment through mitochondrial transfer. <i>Acta Neuropathologica Communications</i> , 2020, 8, 36. | 2.4 | 64 |
| 541 | Myocyte Enhancer Factor 2A (MEF2A) Defines Oxytocin-Induced Morphological Effects and Regulates Mitochondrial Function in Neurons. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2200. | 1.8 | 14 |
| 542 | Higher proteotoxic stress rather than mitochondrial damage is involved in higher neurotoxicity of bortezomib compared to carfilzomib. <i>Redox Biology</i> , 2020, 32, 101502. | 3.9 | 13 |
| 543 | Hippocampal mitochondrial dysfunction and psychiatric-relevant behavioral deficits in spinocerebellar ataxia 1 mouse model. <i>Scientific Reports</i> , 2020, 10, 5418. | 1.6 | 18 |
| 544 | Sustained Ultrastructural Changes in Rat Hippocampal Formation After Repeated Electroconvulsive Seizures. <i>International Journal of Neuropsychopharmacology</i> , 2020, 23, 446-458. | 1.0 | 10 |
| 545 | Mitochondrial stress is relayed to the cytosol by an OMA1-DELE1-HRI pathway. <i>Nature</i> , 2020, 579, 427-432. | 13.7 | 343 |
| 546 | Effect of Jian-Pi-Zhi-Dong Decoction on the Amino Acid Neurotransmitters in a Rat Model of Tourette Syndrome and Comorbid Anxiety Disorder. <i>Frontiers in Psychiatry</i> , 2020, 11, 515. | 1.3 | 3 |
| 547 | Bucladesine Attenuates Spatial Learning and Hippocampal Mitochondrial Impairments Induced by 3, 4-Methylenedioxymethamphetamine (MDMA). <i>Neurotoxicity Research</i> , 2020, 38, 38-49. | 1.3 | 3 |
| 548 | Fast Noninvasive Measurement of Brown Adipose Tissue in Living Mice by Near-Infrared Fluorescence and Photoacoustic Imaging. <i>Analytical Chemistry</i> , 2020, 92, 3787-3794. | 3.2 | 7 |
| 549 | Impairment of PGC-1 β -mediated mitochondrial biogenesis precedes mitochondrial dysfunction and Alzheimer's pathology in the 3xTg mouse model of Alzheimer's disease. <i>Experimental Gerontology</i> , 2020, 133, 110882. | 1.2 | 34 |
| 550 | Ferroptosis in Cancer Cell Biology. <i>Cancers</i> , 2020, 12, 164. | 1.7 | 212 |
| 551 | Embelin averts MPTP-induced dysfunction in mitochondrial bioenergetics and biogenesis via activation of SIRT1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148157. | 0.5 | 38 |
| 552 | Protective effects of phenelzine administration on synaptic and non-synaptic cortical mitochondrial function and lipid peroxidation-mediated oxidative damage following TBI in young adult male rats. <i>Experimental Neurology</i> , 2020, 330, 113322. | 2.0 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 553 | Exploring the multimodal role of phytochemicals in the modulation of cellular signaling pathways to combat age-related neurodegeneration. <i>Science of the Total Environment</i> , 2020, 725, 138313. | 3.9 | 58 |
| 554 | Chronic treatment with the complex I inhibitor MPP+ depletes endogenous PTEN-induced kinase 1 (PINK1) via up-regulation of Bcl-2-associated athanogene 6 (BAG6). <i>Journal of Biological Chemistry</i> , 2020, 295, 7865-7876. | 1.6 | 19 |
| 555 | p62/SQSTM1, a Central but Unexploited Target: Advances in Its Physiological/Pathogenic Functions and Small Molecular Modulators. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 10135-10157. | 2.9 | 26 |
| 556 | Mitochondrial and Nuclear DNA Oxidative Damage in Physiological and Pathological Aging. <i>DNA and Cell Biology</i> , 2020, 39, 1410-1420. | 0.9 | 69 |
| 557 | Biological links between traumatic brain injury and Parkinson's disease. <i>Acta Neuropathologica Communications</i> , 2020, 8, 45. | 2.4 | 78 |
| 558 | The potential of mitochondrial modulation by neuroglobin in treatment of neurological disorders. <i>Free Radical Biology and Medicine</i> , 2021, 162, 471-477. | 1.3 | 14 |
| 559 | A multitude of signaling pathways associated with Alzheimer's disease and their roles in AD pathogenesis and therapy. <i>Medicinal Research Reviews</i> , 2021, 41, 2689-2745. | 5.0 | 26 |
| 560 | The emerging potential of SIRT-3 in oxidative stress-inflammatory axis associated increased neuroinflammatory component for metabolically impaired neural cell. <i>Chemico-Biological Interactions</i> , 2021, 333, 109328. | 1.7 | 17 |
| 561 | Miro (Mitochondrial Rho GTPase), a key player of mitochondrial axonal transport and mitochondrial dynamics in neurodegenerative diseases. <i>Mitochondrion</i> , 2021, 56, 118-135. | 1.6 | 25 |
| 562 | Impaired mitochondrial bioenergetics in psychiatric disorders. , 2021, , 195-221. | | 1 |
| 563 | Neuronal Pentraxin 1 Promotes Hypoxic-Ischemic Neuronal Injury by Impairing Mitochondrial Biogenesis via Interactions With Active Bax[6A7] and Mitochondrial Hexokinase II. <i>ASN Neuro</i> , 2021, 13, 175909142110128. | 1.5 | 4 |
| 564 | Antioxidant Blend of Curcumin and Broccoli Seed Extract Exhibits Protective Effect on Neurodegeneration and Promotes <i>Drosophila</i> Lifespan. <i>ASN Neuro</i> , 2021, 13, 175909142110150. | 1.5 | 5 |
| 565 | Mitochondrial abnormalities in neurological disorders. , 2021, , 193-245. | | 0 |
| 566 | Exploring the Genetic Association of the ABAT Gene with Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2021, 58, 1894-1903. | 1.9 | 7 |
| 567 | Non-immunogenic Induced Pluripotent Stem Cells, a Promising Way Forward for Allogenic Transplantations for Neurological Disorders. <i>Frontiers in Genome Editing</i> , 2020, 2, 623717. | 2.7 | 12 |
| 568 | Impact of Tau on Neurovascular Pathology in Alzheimer's Disease. <i>Frontiers in Neurology</i> , 2020, 11, 573324. | 1.1 | 24 |
| 569 | Mitochondrial pathways in bipolar disorder: Mechanisms and implications. , 2021, , 61-69. | | 1 |
| 570 | Proteome profiling of different rat brain regions reveals the modulatory effect of prolonged maternal separation on proteins involved in cell death-related processes. <i>Biological Research</i> , 2021, 54, 4. | 1.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 571 | Neonatal Rotenone Administration Induces Psychiatric Disorder-Like Behavior and Changes in Mitochondrial Biogenesis and Synaptic Proteins in Adulthood. <i>Molecular Neurobiology</i> , 2021, 58, 3015-3030. | 1.9 | 5 |
| 573 | The Role of Mitonuclear Incompatibility in Bipolar Disorder Susceptibility and Resilience Against Environmental Stressors. <i>Frontiers in Genetics</i> , 2021, 12, 636294. | 1.1 | 8 |
| 574 | Reimagining dots and dashes: Visualizing structure and function of organelles for high-content imaging analysis. <i>Cell Chemical Biology</i> , 2021, 28, 320-337. | 2.5 | 2 |
| 575 | Drp1 is required for AgRP neuronal activity and feeding. <i>ELife</i> , 2021, 10, . | 2.8 | 13 |
| 576 | In search of biomarkers for leprosy by unraveling the host immune response to <i>Mycobacterium leprae</i> . <i>Immunological Reviews</i> , 2021, 301, 175-192. | 2.8 | 33 |
| 577 | Alzheimer's Disease Pathogenesis: Role of Autophagy and Mitophagy Focusing in Microglia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3330. | 1.8 | 71 |
| 578 | An Analysis of the Neurological and Molecular Alterations Underlying the Pathogenesis of Alzheimer's Disease. <i>Cells</i> , 2021, 10, 546. | 1.8 | 11 |
| 579 | Methylene blue and photobiomodulation recover cognitive impairment in hepatic encephalopathy through different effects on cytochrome c-oxidase. <i>Behavioural Brain Research</i> , 2021, 403, 113164. | 1.2 | 3 |
| 580 | Mitochondrion-specific dendritic lipopeptide liposomes for targeted sub-cellular delivery. <i>Nature Communications</i> , 2021, 12, 2390. | 5.8 | 101 |
| 581 | Heat shock protein 22 modulates NRF1/TFAM-dependent mitochondrial biogenesis and DRP1-sparked mitochondrial apoptosis through AMPK-PGC1 β signaling pathway to alleviate the early brain injury of subarachnoid hemorrhage in rats. <i>Redox Biology</i> , 2021, 40, 101856. | 3.9 | 74 |
| 582 | Mesenchymal Stem Cell Transplantation for the Treatment of Cognitive Frailty. <i>Journal of Nutrition, Health and Aging</i> , 2021, 25, 795-801. | 1.5 | 0 |
| 583 | Mitochondrial DNA haplogroups J and T increase the risk of glioma. <i>Mitochondrion</i> , 2021, 58, 95-101. | 1.6 | 3 |
| 584 | Reviving mitochondrial bioenergetics: A relevant approach in epilepsy. <i>Mitochondrion</i> , 2021, 58, 213-226. | 1.6 | 37 |
| 585 | The Moringin β -CD Pretreatment Induces Neuroprotection in an In Vitro Model of Alzheimer's Disease: A Transcriptomic Study. <i>Current Issues in Molecular Biology</i> , 2021, 43, 197-214. | 1.0 | 13 |
| 586 | Extracellular mitochondria in the cerebrospinal fluid (CSF): Potential types and key roles in central nervous system (CNS) physiology and pathogenesis. <i>Mitochondrion</i> , 2021, 58, 255-269. | 1.6 | 21 |
| 587 | Re-emphasizing early Alzheimer's disease pathology starting in select entorhinal neurons, with a special focus on mitophagy. <i>Ageing Research Reviews</i> , 2021, 67, 101307. | 5.0 | 62 |
| 588 | Mitochondria-targeting therapeutic strategies in the treatment of depression. <i>Mitochondrion</i> , 2021, 58, 169-178. | 1.6 | 8 |
| 589 | Aberrant activity of mitochondrial NCLX is linked to impaired synaptic transmission and is associated with mental retardation. <i>Communications Biology</i> , 2021, 4, 666. | 2.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 590 | The Cerebral Effect of Ammonia in Brain Aging: Blood–Brain Barrier Breakdown, Mitochondrial Dysfunction, and Neuroinflammation. <i>Journal of Clinical Medicine</i> , 2021, 10, 2773. | 1.0 | 12 |
| 591 | Purine Nucleotides Metabolism and Signaling in Huntington’s Disease: Search for a Target for Novel Therapies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6545. | 1.8 | 12 |
| 592 | Molecular and cellular pathways contributing to brain aging. <i>Behavioral and Brain Functions</i> , 2021, 17, 6. | 1.4 | 64 |
| 593 | Haloperidol rescues the schizophrenia-like phenotype in adulthood after rotenone administration in neonatal rats. <i>Psychopharmacology</i> , 2021, 238, 2569-2585. | 1.5 | 3 |
| 594 | Synaptopathy Mechanisms in ALS Caused by C9orf72 Repeat Expansion. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 660693. | 1.8 | 9 |
| 595 | Mitochondrial calcium uniporter deletion prevents painful diabetic neuropathy by restoring mitochondrial morphology and dynamics. <i>Pain</i> , 2022, 163, 560-578. | 2.0 | 19 |
| 596 | Telomere Length Shortening in Microglia: Implication for Accelerated Senescence and Neurocognitive Deficits in HIV. <i>Vaccines</i> , 2021, 9, 721. | 2.1 | 5 |
| 597 | Heterogeneous Expression of Nuclear Encoded Mitochondrial Genes Distinguishes Inhibitory and Excitatory Neurons. <i>ENeuro</i> , 2021, 8, ENEURO.0232-21.2021. | 0.9 | 13 |
| 598 | Mfn2 localization in the ER is necessary for its bioenergetic function and neuritic development. <i>EMBO Reports</i> , 2021, 22, e51954. | 2.0 | 27 |
| 599 | Defective Autophagy and Mitophagy in Alzheimer’s Disease: Mechanisms and Translational Implications. <i>Molecular Neurobiology</i> , 2021, 58, 5289-5302. | 1.9 | 17 |
| 600 | EVOO Polyphenols Relieve Synergistically Autophagy Dysregulation in a Cellular Model of Alzheimer’s Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7225. | 1.8 | 13 |
| 601 | Metabolism navigates neural cell fate in development, aging and neurodegeneration. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, . | 1.2 | 16 |
| 602 | Mini-review: Brain energy metabolism and its role in animal models of depression, bipolar disorder, schizophrenia and autism. <i>Neuroscience Letters</i> , 2021, 760, 136003. | 1.0 | 15 |
| 603 | New insights into the mechanism of hepatocyte apoptosis induced by typical organophosphate ester: An integrated in vitro and in silico approach. <i>Ecotoxicology and Environmental Safety</i> , 2021, 219, 112342. | 2.9 | 13 |
| 604 | Aging: All roads lead to mitochondria. <i>Seminars in Cell and Developmental Biology</i> , 2021, 116, 160-168. | 2.3 | 37 |
| 605 | FHL2 anchors mitochondria to actin and adapts mitochondrial dynamics to glucose supply. <i>Journal of Cell Biology</i> , 2021, 220, . | 2.3 | 31 |
| 606 | Oxidative Phosphorylation Is Dysregulated Within the Basocortical Circuit in a 6-month old Mouse Model of Down Syndrome and Alzheimer’s Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 707950. | 1.7 | 10 |
| 607 | Nicotinamide Riboside and Metformin Ameliorate Mitophagy Defect in Induced Pluripotent Stem Cell-Derived Astrocytes With POLG Mutations. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 737304. | 1.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 608 | Mitochondrial dysfunction in perinatal asphyxia: role in pathogenesis and potential therapeutic interventions. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 4421-4434. | 1.4 | 10 |
| 609 | Mitochondrial defects: An emerging theranostic avenue towards Alzheimer's associated dysregulations. <i>Life Sciences</i> , 2021, 285, 119985. | 2.0 | 8 |
| 610 | Astrocytes, a Promising Opportunity to Control the Progress of Parkinson's Disease. <i>Biomedicines</i> , 2021, 9, 1341. | 1.4 | 4 |
| 611 | Two hit mitochondrial-driven model of synapse loss in neurodegeneration. <i>Neurobiology of Disease</i> , 2021, 158, 105451. | 2.1 | 10 |
| 612 | Role of glucose 6-phosphate dehydrogenase (G6PD) deficiency and its association to Autism Spectrum Disorders. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166185. | 1.8 | 2 |
| 613 | Dietary nutrition for neurological disease therapy: Current status and future directions. , 2021, 226, 107861. | | 33 |
| 614 | Dual imaging of dendritic spines and mitochondria in vivo reveals hotspots of plasticity and metabolic adaptation to stress. <i>Neurobiology of Stress</i> , 2021, 15, 100402. | 1.9 | 13 |
| 615 | Autophagy in Alzheimer's disease pathogenesis: Therapeutic potential and future perspectives. <i>Ageing Research Reviews</i> , 2021, 72, 101464. | 5.0 | 99 |
| 616 | Mitochondria as the target for disease related hormonal dysregulation. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 18, 100350. | 1.3 | 8 |
| 617 | Decreased mitochondrial DNA copy number in nerve cells and the hippocampus during nicotine exposure is mediated by autophagy. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112831. | 2.9 | 15 |
| 618 | Coenzyme Q10 and depression. , 2021, , 505-513. | | 1 |
| 619 | Mitochondrial Ion Channels of the Inner Membrane and Their Regulation in Cell Death Signaling. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 620081. | 1.8 | 24 |
| 620 | Aging-Dependent Mitophagy Dysfunction in Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2021, 58, 2362-2378. | 1.9 | 25 |
| 621 | Homeostatic Functions of BCL-2 Proteins beyond Apoptosis. <i>Advances in Experimental Medicine and Biology</i> , 2010, 687, 1-32. | 0.8 | 39 |
| 622 | Mechanisms of Neuronal Mitochondrial Transport. , 2011, , 105-119. | | 2 |
| 623 | Measurement of Mitochondrial Oxygen Consumption Rates in Mouse Primary Neurons and Astrocytes. <i>Methods in Molecular Biology</i> , 2015, 1241, 59-69. | 0.4 | 19 |
| 624 | Cannabinoids and Mitochondria. , 2017, , 211-235. | | 3 |
| 625 | Neurobiological Mechanisms Involved in the Pathogenesis of Alzheimer's Disease. , 2019, , 235-269. | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 626 | Efficiency of mitochondrial functioning as the fundamental biological mechanism of general intelligence (g).. <i>Psychological Review</i> , 2018, 125, 1028-1050. | 2.7 | 58 |
| 627 | Language production in late life. <i>IMPACT: Studies in Language and Society</i> , 2015, , 59-76. | 0.1 | 5 |
| 632 | Adverse effects of δ^9 -tetrahydrocannabinol on neuronal bioenergetics during postnatal development. <i>JCI Insight</i> , 2020, 5, . | 2.3 | 12 |
| 633 | Direct regulation of complex I by mitochondrial MEF2D is disrupted in a mouse model of Parkinson disease and in human patients. <i>Journal of Clinical Investigation</i> , 2011, 121, 930-940. | 3.9 | 155 |
| 634 | Parkinson's disease: don't mess with calcium. <i>Journal of Clinical Investigation</i> , 2012, 122, 1195-1198. | 3.9 | 34 |
| 635 | Mitochondrial Complex I Inhibition Accelerates Amyloid Toxicity. <i>Development & Reproduction</i> , 2017, 21, 417-424. | 0.1 | 13 |
| 636 | Exposure to GSM RF Fields Does Not Affect Calcium Homeostasis in Human Endothelial Cells, Rat Pheochromocytoma Cells or Rat Hippocampal Neurons. <i>PLoS ONE</i> , 2010, 5, e11828. | 1.1 | 42 |
| 637 | Amyloid- β Triggers the Release of Neuronal Hexokinase 1 from Mitochondria. <i>PLoS ONE</i> , 2010, 5, e15230. | 1.1 | 86 |
| 638 | HDAC6 Inhibitor Blocks Amyloid Beta-Induced Impairment of Mitochondrial Transport in Hippocampal Neurons. <i>PLoS ONE</i> , 2012, 7, e42983. | 1.1 | 87 |
| 639 | New Model of Action for Mood Stabilizers: Phosphoproteome from Rat Pre-Frontal Cortex Synaptoneurosomal Preparations. <i>PLoS ONE</i> , 2013, 8, e52147. | 1.1 | 27 |
| 640 | Permeability Transition Pore-Mediated Mitochondrial Superoxide Flashes Regulate Cortical Neural Progenitor Differentiation. <i>PLoS ONE</i> , 2013, 8, e76721. | 1.1 | 40 |
| 641 | Apoptosis Induced by Ginkgo biloba (EGb761) in Melanoma Cells Is Mcl-1-Dependent. <i>PLoS ONE</i> , 2015, 10, e0124812. | 1.1 | 17 |
| 642 | A Glimmer of Hope: Maintain Mitochondrial Homeostasis to Mitigate Alzheimer's Disease. , 2020, 11, 1260. | | 13 |
| 643 | High-Content Genome-Wide RNAi Screen Reveals <i>CCR3</i> as a Key Mediator of Neuronal Cell Death. <i>ENeuro</i> , 2016, 3, ENEURO.0185-16.2016. | 0.9 | 15 |
| 644 | Reversible Disruption of Neuronal Mitochondria by Ischemic and Traumatic Injury Revealed by Quantitative Two-Photon Imaging in the Neocortex of Anesthetized Mice. <i>Journal of Neuroscience</i> , 2017, 37, 333-348. | 1.7 | 9 |
| 645 | VDAC1 at the crossroads of cell metabolism, apoptosis and cell stress. <i>Cell Stress</i> , 2017, 1, 11-36. | 1.4 | 101 |
| 646 | Inhibition of de novo ceramide biosynthesis affects aging phenotype in an in vitro model of neuronal senescence. <i>Aging</i> , 2019, 11, 6336-6357. | 1.4 | 9 |
| 647 | Testosterone enhances mitochondrial complex V function in the substantia nigra of aged male rats. <i>Aging</i> , 2020, 12, 10398-10414. | 1.4 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 648 | Spermidine inhibits neurodegeneration and delays aging via the PINK1-PDR1-dependent mitophagy pathway in <i>C. elegans</i> . <i>Aging</i> , 2020, 12, 16852-16866. | 1.4 | 47 |
| 649 | New Insights into the Mechanisms of Mitochondrial Preconditioning-Triggered Neuroprotection. <i>Current Pharmaceutical Design</i> , 2011, 17, 3381-3389. | 0.9 | 28 |
| 650 | Saponins of <i>Panax japonicus</i> Confer Neuroprotection against Brain Aging through Mitochondrial Related Oxidative Stress and Autophagy in Rats. <i>Current Pharmaceutical Biotechnology</i> , 2020, 21, 667-680. | 0.9 | 11 |
| 651 | Mitochondrial Abnormalities in a Streptozotocin-Induced Rat Model of Sporadic Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2013, 10, 406-419. | 0.7 | 106 |
| 652 | Mitochondrial Dysfunction in Depression. <i>Current Neuropharmacology</i> , 2016, 14, 610-618. | 1.4 | 223 |
| 653 | Mitochondria: A Connecting Link in the Major Depressive Disorder Jigsaw. <i>Current Neuropharmacology</i> , 2019, 17, 550-562. | 1.4 | 29 |
| 654 | Is Human Immunodeficiency Virus-Mediated Dementia an Autophagic Defect that Leads to Neurodegeneration?. <i>CNS and Neurological Disorders - Drug Targets</i> , 2014, 13, 1571-1579. | 0.8 | 4 |
| 655 | In Vitro and In Vivo Neuroprotective Effects of Etifoxine in β -Amyloid-induced Toxicity Models. <i>CNS and Neurological Disorders - Drug Targets</i> , 2020, 19, 227-240. | 0.8 | 5 |
| 656 | Effect of treadmill exercise on catalepsy and the expression of the BDNF gene in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Parkinson in male mice. <i>Iranian Journal of Basic Medical Sciences</i> , 2020, 23, 483-493. | 1.0 | 2 |
| 657 | Neuropathological approaches to cerebral aging and neuroplasticity. <i>Dialogues in Clinical Neuroscience</i> , 2013, 15, 29-43. | 1.8 | 57 |
| 658 | Exploiting Common Aspects of Obesity and Alzheimer's Disease. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 602360. | 1.0 | 21 |
| 659 | Sweet but Bitter: Focus on Fructose Impact on Brain Function in Rodent Models. <i>Nutrients</i> , 2021, 13, 1. | 1.7 | 155 |
| 660 | ERR β is downregulated in injured motor neuron subpopulations following brachial plexus root avulsion. <i>Experimental and Therapeutic Medicine</i> , 2020, 19, 205-213. | 0.8 | 2 |
| 661 | The ubiquitous role of mitochondria in Parkinson and other neurodegenerative diseases. <i>AIMS Neuroscience</i> , 2020, 7, 43-65. | 1.0 | 15 |
| 662 | Control mechanisms in mitochondrial oxidative phosphorylation. <i>Neural Regeneration Research</i> , 2013, 8, 363-75. | 1.6 | 45 |
| 663 | Mechanism of Synaptic Dysfunction and How This Disruption in IGF-1 homeostasis Leads to Neurodegenerative Diseases: A Theory. <i>Biology and Medicine (Aligarh)</i> , 2018, 10, . | 0.3 | 1 |
| 664 | Age-related mitochondrial alterations in brain and skeletal muscle of the YAC128 model of Huntington disease. <i>Npj Aging and Mechanisms of Disease</i> , 2021, 7, 26. | 4.5 | 8 |
| 665 | Adverse Effects of Metformin From Diabetes to COVID-19, Cancer, Neurodegenerative Diseases, and Aging: Is VDAC1 a Common Target?. <i>Frontiers in Physiology</i> , 2021, 12, 730048. | 1.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 666 | Cofilin1 oxidation links oxidative distress to mitochondrial demise and neuronal cell death. Cell Death and Disease, 2021, 12, 953. | 2.7 | 14 |
| 667 | Enhanced Expression of microRNA-1273g-3p Contributes to Alzheimer's Disease Pathogenesis by Regulating the Expression of Mitochondrial Genes. Cells, 2021, 10, 2697. | 1.8 | 10 |
| 668 | Mitophagy in the basolateral amygdala mediates increased anxiety induced by aversive social experience. Neuron, 2021, 109, 3793-3809.e8. | 3.8 | 33 |
| 669 | Chronic stress induces coordinated cortical microcircuit cell-type transcriptomic changes consistent with altered information processing. Biological Psychiatry, 2021, , . | 0.7 | 7 |
| 670 | PARN-like Proteins Regulate Gene Expression in Land Plant Mitochondria by Modulating mRNA Polyadenylation. International Journal of Molecular Sciences, 2021, 22, 10776. | 1.8 | 3 |
| 671 | Loss of prion protein control of glucose metabolism promotes neurodegeneration in model of prion diseases. PLoS Pathogens, 2021, 17, e1009991. | 2.1 | 11 |
| 672 | MOLECULAR AND CELLULAR MECHANISMS OF ALZHEIMER'S DISEASE DEVELOPMENT. Fiziolohichni Zhurnal (Kiev, Ukraine: 1994), 2010, 56, 127-142. | 0.1 | 0 |
| 673 | Beneficial Effects of Ginkgo biloba in Neurological Disorders. , 2013, , 237-270. | | 1 |
| 675 | Acute Axonal Injury in White Matter Stroke. , 2014, , 521-535. | | 1 |
| 676 | Correlation between Hemoglobin Level, Attention and Working Memory Scores. Althea Medical Journal, 2014, 1, 1-5. | 0.1 | 0 |
| 677 | Integrating Pathogenic Models of Autism: Pathway and Network Analysis. , 2014, , 1831-1858. | | 0 |
| 678 | Antioxidants and Neuroprotection. , 2014, , 2175-2189. | | 2 |
| 679 | Mitochondria and Alzheimer's Disease. Journal of Neurology & Stroke, 2014, 1, . | 0.0 | 3 |
| 680 | Mitochondrial Therapeutic Approaches in Parkinson's Disease. , 2016, , 183-205. | | 0 |
| 681 | Parenteral Nutrition in the Newborn: Associated Disorders and Nutritional Aspects. Journal of Nutrition and Health Sciences, 2016, 3, . | 0.2 | 0 |
| 683 | The Decrease of Amyloid-Beta Deposit, Increase of Brain-Derived Neurotrophic Factor and Decrease of C-Reactive Protein Levels in the Rat Model of Dementia, Related to the Physical Exercises. , 2016, 2, . | | 1 |
| 684 | Metabolic Therapy for Autism Spectrum Disorder and Comorbidities. , 2016, , . | | 0 |
| 686 | Cellular Theory of Aging. , 2019, , 1-5. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 687 | Genetic Advance in Depressive Disorder. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1180, 19-57. | 0.8 | 2 |
| 688 | Fourier-filtering based size-encoded images for label-free tracking of sub-cellular organelles in neurons. , 2019, , . | | 0 |
| 691 | Oxidative Stress and Energy Metabolism in the Brain: Midlife as a Turning Point. <i>Antioxidants</i> , 2021, 10, 1715. | 2.2 | 29 |
| 692 | Sirtuin 3 (SIRT3) Pathways in Age-Related Cardiovascular and Neurodegenerative Diseases. <i>Biomedicines</i> , 2021, 9, 1574. | 1.4 | 13 |
| 693 | Beneficial effects of QTC-4-MeOBnE in an LPS-induced mouse model of depression and cognitive impairments: The role of blood-brain barrier permeability, NF- κ B signaling, and microglial activation. <i>Brain, Behavior, and Immunity</i> , 2022, 99, 177-191. | 2.0 | 18 |
| 694 | Molecular Mechanisms Underlying the Role of Mitophagy in Neurodegeneration. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2020, , 63-87. | 0.1 | 0 |
| 695 | Synaptosomal bioenergetic defects in Alzheimer's disease. , 2020, , 473-490. | | 0 |
| 696 | Combination of Ellagic Acid and Trans-Cinnamaldehyde Alleviates Aging-Induced Cognitive Impairment via Modulation of Mitochondrial Function and Inflammatory and Apoptotic Mediators in the Prefrontal Cortex of Aged Rats. <i>Chinese Journal of Physiology</i> , 2020, 63, 218-226. | 0.4 | 3 |
| 697 | Cellular Theory of Aging. , 2020, , 402-407. | | 0 |
| 698 | Microglial Mitophagy and Neurodegenerative Disorders. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2020, , 88-128. | 0.1 | 0 |
| 700 | Molecular and clinical investigation of Iranian patients with Friedreich ataxia. <i>Iranian Biomedical Journal</i> , 2014, 18, 28-33. | 0.4 | 3 |
| 701 | Mitochondrial Dynamics in Retinal Ganglion Cell Axon Regeneration and Growth Cone Guidance. <i>Journal of Ocular Biology</i> , 2013, 1, 9. | 1.5 | 18 |
| 704 | Nobiletin alleviates cerebral ischemic-reperfusion injury via MAPK signaling pathway. <i>American Journal of Translational Research (discontinued)</i> , 2019, 11, 5967-5977. | 0.0 | 13 |
| 705 | Epitranscriptomic regulation of cognitive development and decline. <i>Seminars in Cell and Developmental Biology</i> , 2021, , . | 2.3 | 0 |
| 706 | Mitochondrial Quality Control Strategies: Potential Therapeutic Targets for Neurodegenerative Diseases?. <i>Frontiers in Neuroscience</i> , 2021, 15, 746873. | 1.4 | 17 |
| 707 | Protective effects of atorvastatin and rosuvastatin on 3,4-methylenedioxymethamphetamine (MDMA)-induced spatial learning and memory impairment. <i>Inflammopharmacology</i> , 2021, 29, 1807-1818. | 1.9 | 4 |
| 708 | Disturbances in Redox Homeostasis in the Ageing Brain. <i>Healthy Ageing and Longevity</i> , 2022, , 45-64. | 0.2 | 0 |
| 709 | Senescence in Primary Rat Astrocytes Induces Loss of the Mitochondrial Membrane Potential and Alters Mitochondrial Dynamics in Cortical Neurons. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 766306. | 1.7 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 710 | Euxanthone improves cognitive impairment by attenuating mitochondrial fragmentation and suppressing oxidative stress. <i>Central-European Journal of Immunology</i> , 2021, 46, 446-455. | 0.4 | 1 |
| 711 | Polyphenols inhibiting MAPK signalling pathway mediated oxidative stress and inflammation in depression. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112545. | 2.5 | 71 |
| 712 | LDHB Deficiency Promotes Mitochondrial Dysfunction Mediated Oxidative Stress and Neurodegeneration in Adult Mouse Brain. <i>Antioxidants</i> , 2022, 11, 261. | 2.2 | 12 |
| 713 | Natural Yaşlanma ile İlişkili Sıvıların Mitoplastisit Etkisi. <i>Black Sea Journal of Health Science</i> , 2022, 5, 303-311. | 0.4 | 0 |
| 714 | Regulation of neuronal autophagy and cell survival by MCL1 in Alzheimer's disease. , 2022, 1, 42-55. | | 11 |
| 715 | Amelioration of Alzheimer's disease pathology by mitophagy inducers identified via machine learning and a cross-species workflow. <i>Nature Biomedical Engineering</i> , 2022, 6, 76-93. | 11.6 | 110 |
| 716 | Recent Reports on Redox Stress-Induced Mitochondrial DNA Variations, Neuroglial Interactions, and NMDA Receptor System in Pathophysiology of Schizophrenia. <i>Molecular Neurobiology</i> , 2022, 59, 2472-2496. | 1.9 | 4 |
| 717 | Brain single-nucleus transcriptomics highlights that polystyrene nanoplastics potentially induce Parkinson's disease-like neurodegeneration by causing energy metabolism disorders in mice. <i>Journal of Hazardous Materials</i> , 2022, 430, 128459. | 6.5 | 48 |
| 718 | Mitochondria-targeted drug delivery systems for the effective treatment of neurodegenerative disorders. , 2022, , 129-150. | | 0 |
| 719 | Roles of the Cannabinoid System in the Basal Ganglia in Parkinson's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 832854. | 1.8 | 10 |
| 720 | Screening and Structure-Activity Relationship of D2AAK1 Derivatives for Potential Application in the Treatment of Neurodegenerative Diseases. <i>Molecules</i> , 2022, 27, 2239. | 1.7 | 1 |
| 721 | A review on the neuroprotective effect of berberine against chemotherapy-induced cognitive impairment. <i>Current Drug Targets</i> , 2022, 23, . | 1.0 | 0 |
| 722 | Mechanistic Insights into Selective Autophagy Subtypes in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3609. | 1.8 | 14 |
| 723 | Reviewing the mitochondrial dysfunction paradigm in rodent models as platforms for neuropsychiatric disease research. <i>Mitochondrion</i> , 2022, 64, 82-102. | 1.6 | 4 |
| 724 | Biochanin A alleviates cognitive impairment and hippocampal mitochondrial damage in ovariectomized APP/PS1 mice. <i>Phytomedicine</i> , 2022, 100, 154056. | 2.3 | 14 |
| 725 | Ionizing Radiation-Induced Brain Cell Aging and the Potential Underlying Molecular Mechanisms. <i>Cells</i> , 2021, 10, 3570. | 1.8 | 17 |
| 726 | Synaptic Plasticity Dysfunctions in the Pathophysiology of 22q11 Deletion Syndrome: Is There a Role for Astrocytes?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4412. | 1.8 | 8 |
| 727 | Neuronal metabolism in learning and memory: the anticipatory activity perspective. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, , 104664. | 2.9 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 728 | PINK1-mediated Drp1S616 phosphorylation modulates synaptic development and plasticity via promoting mitochondrial fission. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 103. | 7.1 | 25 |
| 729 | SIRT1 Is Involved in the Neuroprotection of Pterostilbene Against Amyloid β^{25} -Induced Cognitive Deficits in Mice. <i>Frontiers in Pharmacology</i> , 2022, 13, 877098. | 1.6 | 8 |
| 742 | Involvement of DA D3 Receptors in Structural Neuroplasticity of Selected Limbic Brain Circuits: Possible Role in Treatment-Resistant Depression. <i>Current Topics in Behavioral Neurosciences</i> , 2022, , . | 0.8 | 0 |
| 743 | Ferroptosis a Futuristic Roadmap for Cancer and Alzheimer's Disease. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 744 | Urolithin A attenuates auditory cell senescence by activating mitophagy. <i>Scientific Reports</i> , 2022, 12, 7704. | 1.6 | 15 |
| 745 | Neuroprotective Effects of Cranberry Juice Treatment in a Rat Model of Parkinson's Disease. <i>Nutrients</i> , 2022, 14, 2014. | 1.7 | 6 |
| 747 | Remodeling mitochondrial transport and cellular energetics in axonal regeneration and spinal cord injury. , 2022, , 199-213. | | 0 |
| 748 | Chronic di(2-ethylhexyl) phthalate exposure leads to dopaminergic neuron degeneration through mitochondrial dysfunction in <i>C. elegans</i> . <i>Environmental Pollution</i> , 2022, 307, 119574. | 3.7 | 6 |
| 749 | Plant mitochondrial FMT and its mammalian homolog CLUH controls development and behavior in <i>Arabidopsis</i> and locomotion in mice. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, . | 2.4 | 2 |
| 750 | Mitochondrial Permeability Transition in Stem Cells, Development, and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2022, , . | 0.8 | 0 |
| 751 | <i>C. elegans</i> as an Animal Model to Study the Intersection of DNA Repair, Aging and Neurodegeneration. <i>Frontiers in Aging</i> , 0, 3, . | 1.2 | 9 |
| 752 | Mitochondrial genome mutations and neuronal dysfunction of induced pluripotent stem cells derived from patients with Alzheimer's disease. <i>Cell Proliferation</i> , 2022, 55, . | 2.4 | 6 |
| 754 | Intrinsic Mitochondrial Reactive Oxygen Species (ROS) Activate the In Situ Synthesis of Trimethine Cyanines in Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 13 |
| 755 | Intrinsic Mitochondrial ROS Activated In Situ Synthesis of Trimethine Cyanines in Cancer Cells. <i>Angewandte Chemie</i> , 0, , . | 1.6 | 0 |
| 756 | Protein misfolding and clearance in the pathogenesis of a new infantile onset ataxia caused by mutations in <i>PRDX3</i> . <i>Human Molecular Genetics</i> , 2022, 31, 3897-3913. | 1.4 | 8 |
| 757 | Oxidative stress-mediated memory impairment during aging and its therapeutic intervention by natural bioactive compounds. <i>Frontiers in Aging Neuroscience</i> , 0, 14, . | 1.7 | 8 |
| 758 | The Effect of Sulforaphane on Perinatal Hypoxic-Ischemic Brain Injury in Rats. <i>Physiological Research</i> , 0, , 401-411. | 0.4 | 2 |
| 759 | Systems Genetic Identification of Mitochondrion-Associated Alzheimer's Disease Genes and Implications for Disease Risk Prediction. <i>Biomedicines</i> , 2022, 10, 1782. | 1.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 760 | Carnosol Reduced Pathogenic Protein Aggregation and Cognitive Impairment in Neurodegenerative Diseases Models via Improving Proteostasis and Ameliorating Mitochondrial Disorders. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 10490-10505. | 2.4 | 4 |
| 761 | Transplantation of Astrocytic Mitochondria Modulates Neuronal Antioxidant Defense and Neuroplasticity and Promotes Functional Recovery after Intracerebral Hemorrhage. <i>Journal of Neuroscience</i> , 2022, 42, 7001-7014. | 1.7 | 13 |
| 762 | Sinisan alleviates depression-like behaviors by regulating mitochondrial function and synaptic plasticity in maternal separation rats. <i>Phytomedicine</i> , 2022, 106, 154395. | 2.3 | 17 |
| 763 | Selective disruption of Drp1-independent mitophagy and mitolysosome trafficking by an Alzheimer's disease relevant tau modification in a novel <i>Caenorhabditis elegans</i> model. <i>Genetics</i> , 2022, 222, . | 1.2 | 3 |
| 764 | Labelfree mapping and profiling of altered lipid homeostasis in the rat hippocampus after traumatic stress: Role of oxidative homeostasis. <i>Neurobiology of Stress</i> , 2022, 20, 100476. | 1.9 | 2 |
| 765 | The synaptic lipidome in health and disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 184033. | 1.4 | 3 |
| 766 | ATP Proton Pumps. Function and Regulation. , 2022, , . | | 0 |
| 767 | Molecular linkages among A β ² , tau, impaired mitophagy, and mitochondrial dysfunction in Alzheimer's disease. , 2022, , 91-109. | | 0 |
| 768 | Protective Effects of Pioglitazone on Cognitive Impairment and the Underlying Mechanisms: A Review of Literature. <i>Drug Design, Development and Therapy</i> , 0, Volume 16, 2919-2931. | 2.0 | 13 |
| 769 | Mitochondrial morphology and synaptic structure altered in the retina of parkin-deficient mice. <i>Neuroscience Letters</i> , 2022, 790, 136888. | 1.0 | 2 |
| 770 | Impacts of Gestational FireMaster 550 Exposure on the Neonatal Cortex Are Sex Specific and Largely Attributable to the Organophosphate Esters. <i>Neuroendocrinology</i> , 2023, 113, 1262-1282. | 1.2 | 4 |
| 771 | Parkinsonism in Genetic Neurodevelopmental Disorders: A Systematic Review. <i>Movement Disorders Clinical Practice</i> , 2023, 10, 17-31. | 0.8 | 3 |
| 772 | ROCK2 inhibition: A futuristic approach for the management of Alzheimer's disease. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 142, 104871. | 2.9 | 13 |
| 773 | Emerging roles of brain metabolism in cognitive impairment and neuropsychiatric disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 142, 104892. | 2.9 | 24 |
| 774 | Role of mitophagy in the neurodegenerative diseases and its pharmacological advances: A review. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, . | 1.4 | 5 |
| 775 | How cytoskeletal proteins regulate mitochondrial energetics in cell physiology and diseases. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, . | 1.8 | 6 |
| 777 | <sc>CuATSM</sc> effectively ameliorates <sc>ALS</sc> patient astrocyte-mediated motor neuron toxicity in human in vitro models of amyotrophic lateral sclerosis. <i>Glia</i> , 2023, 71, 350-365. | 2.5 | 5 |
| 778 | A new approach for the treatment of subthreshold bipolar disorders: Targeted high dose levothyroxine and repetitive transcranial magnetic stimulation for mitochondrial treatment. <i>Frontiers in Psychiatry</i> , 0, 13, . | 1.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 779 | Role of mitochondria in brain functions and related disorders. <i>Exploration of Medicine</i> , 0, , 494-515. | 1.5 | 0 |
| 780 | Miro GTPase domains regulate the assembly of the mitochondrial motor adaptor complex. <i>Life Science Alliance</i> , 2023, 6, e202201406. | 1.3 | 4 |
| 781 | Resveratrol-Mediated Regulation of Mitochondria Biogenesis-associated Pathways in Neurodegenerative Diseases: Molecular Insights and Potential Therapeutic Applications. <i>Current Neuropharmacology</i> , 2023, 21, 1184-1201. | 1.4 | 8 |
| 782 | Association of NGF and Mitochondrial Respiration with Autism Spectrum Disorder. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11917. | 1.8 | 5 |
| 783 | Willin/FRMD6 Mediates Mitochondrial Dysfunction Relevant to Neuronal $\text{A}\beta^2$ Toxicity. <i>Cells</i> , 2022, 11, 3140. | 1.8 | 2 |
| 784 | The Role of Mitophagy in Various Neurological Diseases as a Therapeutic Approach. <i>Cellular and Molecular Neurobiology</i> , 0, , . | 1.7 | 6 |
| 785 | Proline Metabolism in Neurological and Psychiatric Disorders. <i>Molecules and Cells</i> , 2022, 45, 781-788. | 1.0 | 3 |
| 786 | Dihydromyricetin ameliorates social isolation-induced anxiety by modulating mitochondrial function, antioxidant enzymes, and BDNF. <i>Neurobiology of Stress</i> , 2022, 21, 100499. | 1.9 | 4 |
| 787 | An insight into plant polyphenols in prevention of brain aging. , 2023, , 215-234. | | 0 |
| 788 | Neurodegenerative Diseases: From Dysproteostasis, Altered Calcium Signalosome to Selective Neuronal Vulnerability to AAV-Mediated Gene Therapy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14188. | 1.8 | 2 |
| 789 | P2X7 Receptor and Purinergic Signaling: Orchestrating Mitochondrial Dysfunction in Neurodegenerative Diseases. <i>ENeuro</i> , 2022, 9, ENEURO.0092-22.2022. | 0.9 | 7 |
| 790 | NNMT-DNMT1 Axis is Essential for Maintaining Cancer Cell Sensitivity to Oxidative Phosphorylation Inhibition. <i>Advanced Science</i> , 2023, 10, . | 5.6 | 9 |
| 791 | Advances and Challenges of Cannabidiol as an Anti-Seizure Strategy: Preclinical Evidence. <i>International Journal of Molecular Sciences</i> , 2022, 23, 16181. | 1.8 | 4 |
| 792 | "Ferroptosis, acyl starvation and breast cancer. <i>Molecular Pharmacology</i> , 0, , MOLPHARM-MR-2022-000607. | 1.0 | 1 |
| 793 | Autophagy in glaucoma pathogenesis: Therapeutic potential and future perspectives. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, . | 1.8 | 6 |
| 794 | Biomechanics of Traumatic Head and Neck Injuries on Women: A State-of-the-Art Review and Future Directions. <i>Biology</i> , 2023, 12, 83. | 1.3 | 1 |
| 795 | Mitochondria in Aging and Alzheimer's Disease: Focus on Mitophagy. <i>Neuroscientist</i> , 0, , 107385842211397. | 2.6 | 12 |
| 796 | Targeting the overexpressed mitochondrial protein VDAC1 in a mouse model of Alzheimer's disease protects against mitochondrial dysfunction and mitigates brain pathology. <i>Translational Neurodegeneration</i> , 2022, 11, . | 3.6 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 797 | The Crosstalk between Microbiome and Mitochondrial Homeostasis in Neurodegeneration. <i>Cells</i> , 2023, 12, 429. | 1.8 | 6 |
| 798 | Mitochondrial calcium cycling in neuronal function and neurodegeneration. <i>Frontiers in Cell and Developmental Biology</i> , 0, 11, . | 1.8 | 10 |
| 799 | Schizophrenia as metabolic disease. What are the causes?. <i>Metabolic Brain Disease</i> , 0, , . | 1.4 | 3 |
| 800 | Targeting Apoptotic Pathway of Cancer Cells with Phytochemicals and Plant-Based Nanomaterials. <i>Biomolecules</i> , 2023, 13, 194. | 1.8 | 32 |
| 801 | Mitochondrial Transplantation in Mitochondrial Medicine: Current Challenges and Future Perspectives. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1969. | 1.8 | 10 |
| 802 | Deregulation of ER-mitochondria contact formation and mitochondrial calcium homeostasis mediated by VDAC in fragile X syndrome. <i>Developmental Cell</i> , 2023, 58, 597-615.e10. | 3.1 | 2 |
| 803 | Mitochondrial mechanisms in Alzheimer's disease: Quest for therapeutics. <i>Drug Discovery Today</i> , 2023, 28, 103547. | 3.2 | 6 |
| 804 | Isolated Mitochondrial Preparations and In organello Assays: A Powerful and Relevant Ex vivo Tool for Assessment of Brain (Patho)physiology. <i>Current Neuropharmacology</i> , 2023, 21, 1433-1449. | 1.4 | 0 |
| 805 | Mitochondria dysfunction and bipolar disorder: From pathology to therapy. <i>IBRO Neuroscience Reports</i> , 2023, 14, 407-418. | 0.7 | 3 |
| 806 | Ratiometric fluorescence biosensing of silver NanoCluster Beacons for ATP detection based on ligation-triggered rolling cycle amplification. <i>Microchemical Journal</i> , 2023, 190, 108663. | 2.3 | 2 |
| 809 | Roles of genistein in learning and memory during aging and neurological disorders. <i>Biogerontology</i> , 2023, 24, 329-346. | 2.0 | 1 |
| 810 | Recent advances on the molecular mechanisms of exercise-induced improvements of cognitive dysfunction. <i>Translational Neurodegeneration</i> , 2023, 12, . | 3.6 | 15 |
| 811 | Exercise activates Sirt1-mediated Drp1 acetylation and inhibits hepatocyte apoptosis to improve nonalcoholic fatty liver disease. <i>Lipids in Health and Disease</i> , 2023, 22, . | 1.2 | 3 |
| 812 | Characterization of brain resilience in Alzheimer's disease using polygenic risk scores and further improvement by integrating mitochondria-associated loci. <i>Journal of Advanced Research</i> , 2024, 56, 113-124. | 4.4 | 0 |
| 813 | Mitochondrial Complex I as a Pathologic and Therapeutic Target for Parkinson's Disease. <i>ACS Chemical Neuroscience</i> , 0, , . | 1.7 | 5 |
| 814 | Cannabinoids and Multiple Sclerosis: A Critical Analysis of Therapeutic Potentials and Safety Concerns. <i>Pharmaceutics</i> , 2023, 15, 1151. | 2.0 | 1 |
| 815 | Mitochondrial Dysfunction Links to Impaired Hippocampal Serotonin Release in a Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2023, , 1-15. | 1.2 | 2 |
| 816 | Dysfunction of the neurovascular unit in brain aging. <i>Journal of Biomedical Research</i> , 2023, 37, 1. | 0.7 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 817 | Connecting Dots between Mitochondrial Dysfunction and Depression. <i>Biomolecules</i> , 2023, 13, 695. | 1.8 | 7 |
| 818 | Mitochondria as central hubs in synaptic modulation. <i>Cellular and Molecular Life Sciences</i> , 2023, 80, . | 2.4 | 5 |
| 838 | Action Mechanisms of Photobiomodulation in Neuronal Cells and the Brain. <i>Synthesis Lectures on Biomedical Engineering</i> , 2023, , 49-85. | 0.1 | 1 |
| 857 | Pathological Correlates of Cognitive Decline in Parkinsonâ€™s Disease: From Molecules to Neural Networks. <i>Biochemistry (Moscow)</i> , 2023, 88, 1890-1904. | 0.7 | 0 |
| 871 | High-Resolution Respirometry for Mitochondrial Function in Rodent Brain. <i>Methods in Molecular Biology</i> , 2024, , 49-55. | 0.4 | 0 |