# Laszlo Tretter

List of Publications by Year
in descending order



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|---|---|---|---|
| 39 papers | 2,844 citations | 279798 23 h-index | 315739 38 g-index |
| 39 all docs | 39 docs citations | 39 times ranked | 4909 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Generation of Reactive Oxygen Species in the Reaction Catalyzed by Â-Ketoglutarate Dehydrogenase. Journal of Neuroscience, 2004, 24, 7771-7778. | 3.6 | 407 |
| 2 | The Putative Drp1 Inhibitor mdivi-1 Is a Reversible Mitochondrial Complex I Inhibitor that Modulates Reactive Oxygen Species. Developmental Cell, 2017, 40, 583-594.e6. | 7.0 | 406 |
| 3 | Succinate, an intermediate in metabolism, signal transduction, ROS, hypoxia, and tumorigenesis. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1086-1101. | 1.0 | 395 |
| 4 | Alpha-ketoglutarate dehydrogenase: a target and generator of oxidative stress. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2335-2345. | 4.0 | 339 |
| 5 | Initiation of Neuronal Damage by Complex I Deficiency and Oxidative Stress in Parkinson's Disease. Neurochemical Research, 2004, 29, 569-577. | 3.3 | 169 |
| 6 | Characteristics of ?-glycerophosphate-evoked H2O2generation in brain mitochondria. Journal of Neurochemistry, 2007, 100, 650-663. | 3.9 | 105 |
| 7 | Abolition of mitochondrial substrateâ€level phosphorylation by itaconic acid produced by LPSâ€inducedIrg1expression in cells of murine macrophage lineage. FASEB Journal, 2016, 30, 286-300. | 0.5 | 100 |
| 8 | Chronic Activation of Î³2 AMPK Induces Obesity and Reduces Î² Cell Function. Cell Metabolism, 2016, 23, 821-836. | 16.2 | 87 |
| 9 | Diastolic dysfunction in prediabetic male rats: Role of mitochondrial oxidative stress. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H927-H943. | 3.2 | 72 |
| 10 | The role of mitochondrial dehydrogenases in the generation of oxidative stress. Neurochemistry International, 2013, 62, 757-763. | 3.8 | 64 |
| 11 | Formation of reactive oxygen species by human and bacterial pyruvate and 2-oxoglutarate dehydrogenase multienzyme complexes reconstituted from recombinant components. Free Radical Biology and Medicine, 2015, 89, 642-650. | 2.9 | 53 |
| 12 | Uncoupling is without an effect on the production of reactive oxygen species by in situ synaptic mitochondria. Journal of Neurochemistry, 2007, 103, 1864-1871. | 3.9 | 48 |
| 13 | The effect of bovine serum albumin on the membrane potential and reactive oxygen species generation in succinate-supported isolated brain mitochondria. Neurochemistry International, 2007, 50, 139-147. | 3.8 | 47 |
| 14 | TP53 mutation hits energy metabolism and increases glycolysis in breast cancer. Oncotarget, 2016, 7, 67183-67195. | 1.8 | 46 |
| 15 | The neuroprotective drug vinpocetine prevents veratridine-induced [Na+]i and [Ca2+]i rise in synaptosomes. NeuroReport, 1998, 9, 1849-1853. | 1.2 | 44 |
| 16 | Human 2-Oxoglutarate Dehydrogenase Complex E1 Component Forms a Thiamin-derived Radical by Aerobic Oxidation of the Enamine Intermediate. Journal of Biological Chemistry, 2014, 289, 29859-29873. | 3.4 | 41 |
| 17 | Impaired Regulation of pH Homeostasis by Oxidative Stress in Rat Brain Capillary Endothelial Cells. Cellular and Molecular Neurobiology, 2005, 25, 141-151. | 3.3 | 38 |
| 18 | Stimulation of H2O2 generation by calcium in brain mitochondria respiring on Î±-glycerophosphate. Journal of Neuroscience Research, 2007, 85, 3471-3479. | 2.9 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Moderate Dependence of ROS Formation on Î”Î¨m in Isolated Brain Mitochondria Supported by NADH-linked Substrates. Neurochemical Research, 2007, 32, 569-575. | 3.3 | 37 |
| 20 | H2O2 generation is decreased by calcium in isolated brain mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 800-807. | 1.0 | 30 |
| 21 | Versatility of microglial bioenergetic machinery under starving conditions. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 201-214. | 1.0 | 28 |
| 22 | Membrane potential and delta pH dependency of reverse electron transport-associated hydrogen peroxide production in brain and heart mitochondria. Journal of Bioenergetics and Biomembranes, 2018, 50, 355-365. | 2.3 | 26 |
| 23 | Glutamate release by an Na<sup>+</sup> load and oxidative stress in nerve terminals: relevance to ischemia/reperfusion. Journal of Neurochemistry, 2002, 83, 855-862. | 3.9 | 25 |
| 24 | High Ca2+ load promotes Hydrogen peroxide generation via activation of Î±-glycerophosphate dehydrogenase in brain mitochondria. Free Radical Biology and Medicine, 2012, 53, 2119-2130. | 2.9 | 23 |
| 25 | GABA, glutamine, glutamate oxidation and succinic semialdehyde dehydrogenase expression in human gliomas. Journal of Experimental and Clinical Cancer Research, 2018, 37, 271. | 8.6 | 22 |
| 26 | Novel mitochondrial transition pore inhibitor Nâ€methylâ€4â€isoleucine cyclosporin is a new therapeutic option in acute pancreatitis. Journal of Physiology, 2019, 597, 5879-5898. | 2.9 | 21 |
| 27 | Differentiation-Dependent Energy Production and Metabolite Utilization: A Comparative Study on Neural Stem Cells, Neurons, and Astrocytes. Stem Cells and Development, 2016, 25, 995-1005. | 2.1 | 18 |
| 28 | Measurement of ROS Homeostasis in Isolated Mitochondria. Methods in Enzymology, 2014, 547, 199-223. | 1.0 | 17 |
| 29 | Dual Effect of Pyruvate in Isolated Nerve Terminals: Generation of Reactive Oxygen Species and Protection of Aconitase. Neurochemical Research, 2005, 30, 1331-1338. | 3.3 | 14 |
| 30 | Transglutaminase 2 Contributes to Apoptosis Induction in Jurkat T Cells by Modulating Ca2+ Homeostasis via Cross-Linking RAP1GDS1. PLoS ONE, 2013, 8, e81516. | 2.5 | 12 |
| 31 | Lack of cyclophilin D protects against the development of acute lung injury in endotoxemia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2563-2573. | 3.8 | 12 |
| 32 | Triethylene glycol dimethacrylate impairs bioenergetic functions and induces oxidative stress in mitochondria via inhibiting respiratory Complex I. Dental Materials, 2018, 34, e166-e181. | 3.5 | 12 |
| 33 | The Mitochondrial Targets of Neuroprotective Drug Vinpocetine on Primary Neuron Cultures, Brain Capillary Endothelial Cells, Synaptosomes, and Brain Mitochondria. Neurochemical Research, 2019, 44, 2435-2447. | 3.3 | 12 |
| 34 | Reversible inhibition of hydrogen peroxide elimination by calcium in brain mitochondria. Journal of Neuroscience Research, 2011, 89, 1965-1972. | 2.9 | 10 |
| 35 | Cyclophilin Dâ€dependent mitochondrial permeability transition amplifies inflammatory reprogramming in endotoxemia. FEBS Open Bio, 2021, 11, 684-704. | 2.3 | 10 |
| 36 | The SDHB Arg230His mutation causing familial paraganglioma alters glycolysis in a new Caenorhabditis elegans model. DMM Disease Models and Mechanisms, 2020, 13, . | 2.4 | 7 |

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|---|---|---|---|
| 37 | Methylene Blue Bridges the Inhibition and Produces Unusual Respiratory Changes in Complex III-Inhibited Mitochondria. Studies on Rats, Mice and Guinea Pigs. Antioxidants, 2021, 10, 305. | 5.1 | 7 |
| 38 | Bioenergetic Impairment of Triethylene Glycol Dimethacrylate- (TEGDMA-) Treated Dental Pulp Stem Cells (DPSCs) and Isolated Brain Mitochondria are Amended by Redox Compound Methylene Blue. Materials, 2020, 13, 3472. | 2.9 | 3 |
| 39 | Bioenergetics: From atomic resolution structures to cancer metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 631-632. | 1.0 | 0 |