

Mauro Schneider Oliveira

List of Publications by Year in descending order

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104
papers

2,566
citations

159585

30
h-index

254184

43
g-index

107
all docs

107
docs citations

107
times ranked

3457
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | GM1 ganglioside prevents seizures, Na ⁺ ,K ⁺ -ATPase activity inhibition and oxidative stress induced by glutaric acid and pentylenetetrazole. <i>Neurobiology of Disease</i> , 2006, 22, 611-623. | 4.4 | 88 |
| 2 | Cyclooxygenase-2/PGE2 pathway facilitates pentylenetetrazol-induced seizures. <i>Epilepsy Research</i> , 2008, 79, 14-21. | 1.6 | 86 |
| 3 | Anticonvulsant activity of Î²-caryophyllene against pentylenetetrazol-induced seizures. <i>Epilepsy and Behavior</i> , 2016, 56, 26-31. | 1.7 | 83 |
| 4 | Swimming training prevents pentylenetetrazol-induced inhibition of Na ⁺ ,K ⁺ -ATPase activity, seizures, and oxidative stress. <i>Epilepsia</i> , 2009, 50, 811-823. | 5.1 | 74 |
| 5 | Neuroprotective Effect of Physical Exercise in a Mouse Model of Alzheimer's Disease Induced by Î²-Amyloid1-40 Peptide. <i>Neurotoxicity Research</i> , 2013, 24, 148-163. | 2.7 | 72 |
| 6 | Na ⁺ ,K ⁺ -ATPase activity impairment after experimental traumatic brain injury: Relationship to spatial learning deficits and oxidative stress. <i>Behavioural Brain Research</i> , 2008, 193, 306-310. | 2.2 | 69 |
| 7 | Ascorbate modulates pentylenetetrazol-induced convulsions biphasically. <i>Neuroscience</i> , 2004, 128, 721-728. | 2.3 | 65 |
| 8 | The effect of NADPH-oxidase inhibitor apocynin on cognitive impairment induced by moderate lateral fluid percussion injury: Role of inflammatory and oxidative brain damage. <i>Neurochemistry International</i> , 2013, 63, 583-593. | 3.8 | 60 |
| 9 | Lycopene protects against acute zearalenone-induced oxidative, endocrine, inflammatory and reproductive damages in male mice. <i>Chemico-Biological Interactions</i> , 2015, 230, 50-57. | 4.0 | 60 |
| 10 | Additive anticonvulsant effects of creatine supplementation and physical exercise against pentylenetetrazol-induced seizures. <i>Neurochemistry International</i> , 2009, 55, 333-340. | 3.8 | 55 |
| 11 | The involvement of Na ⁺ , K ⁺ -ATPase activity and free radical generation in the susceptibility to pentylenetetrazol-induced seizures after experimental traumatic brain injury. <i>Journal of the Neurological Sciences</i> , 2011, 308, 35-40. | 0.6 | 54 |
| 12 | Lycopene treatment prevents hematological, reproductive and histopathological damage induced by acute zearalenone administration in male Swiss mice. <i>Experimental and Toxicologic Pathology</i> , 2014, 66, 179-185. | 2.1 | 54 |
| 13 | Adaptation to oxidative challenge induced by chronic physical exercise prevents Na ⁺ ,K ⁺ -ATPase activity inhibition after traumatic brain injury. <i>Brain Research</i> , 2009, 1279, 147-155. | 2.2 | 53 |
| 14 | Exercise Pre-conditioning Reduces Brain Inflammation and Protects against Toxicity Induced by Traumatic Brain Injury: Behavioral and Neurochemical Approach. <i>Neurotoxicity Research</i> , 2012, 21, 175-184. | 2.7 | 52 |
| 15 | Creatine protects against the convulsive behavior and lactate production elicited by the intrastriatal injection of methylmalonate. <i>Neuroscience</i> , 2003, 118, 1079-1090. | 2.3 | 47 |
| 16 | Î±-Tocopherol protects against pentylenetetrazol- and methylmalonate-induced convulsions. <i>Epilepsy Research</i> , 2005, 66, 185-194. | 1.6 | 46 |
| 17 | Neuromodulatory effect of creatine on extracellular action potentials in rat hippocampus: Role of NMDA receptors. <i>Neurochemistry International</i> , 2008, 53, 33-37. | 3.8 | 40 |
| 18 | Altered expression and function of small-conductance (SK) Ca ²⁺ -activated K ⁺ channels in pilocarpine-treated epileptic rats. <i>Brain Research</i> , 2010, 1348, 187-199. | 2.2 | 40 |

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|----|--|-----|-----------|
| 19 | Effectiveness of creatine monohydrate on seizures and oxidative damage induced by methylmalonate. <i>Pharmacology Biochemistry and Behavior</i> , 2006, 83, 136-144. | 2.9 | 39 |
| 20 | Methylene blue prevents methylmalonate-induced seizures and oxidative damage in rat striatum. <i>Neurochemistry International</i> , 2007, 50, 164-171. | 3.8 | 39 |
| 21 | Involvement of oxidative stress in subacute toxicity induced by fumonisin B1 in broiler chicks. <i>Veterinary Microbiology</i> , 2014, 174, 180-185. | 1.9 | 39 |
| 22 | The role of kinin B ₁ receptor and the effect of angiotensin I-converting enzyme inhibition on acute gout attacks in rodents. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 260-268. | 0.9 | 38 |
| 23 | Creatine reduces oxidative stress markers but does not protect against seizure susceptibility after severe traumatic brain injury. <i>Brain Research Bulletin</i> , 2012, 87, 180-186. | 3.0 | 37 |
| 24 | Guanosine Protects Against Traumatic Brain Injury-Induced Functional Impairments and Neuronal Loss by Modulating Excitotoxicity, Mitochondrial Dysfunction, and Inflammation. <i>Molecular Neurobiology</i> , 2017, 54, 7585-7596. | 4.0 | 37 |
| 25 | Modulation of pentylenetetrazol-induced seizures by prostaglandin E2 receptors. <i>Neuroscience</i> , 2008, 152, 1110-1118. | 2.3 | 34 |
| 26 | Prostaglandin E ₂ modulates Na ⁺ ,K ⁺ -ATPase activity in rat hippocampus: implications for neurological diseases. <i>Journal of Neurochemistry</i> , 2009, 109, 416-426. | 3.9 | 34 |
| 27 | Differential effects of atorvastatin treatment and withdrawal on pentylenetetrazol-induced seizures. <i>Epilepsia</i> , 2011, 52, 2094-2104. | 5.1 | 34 |
| 28 | Spermidine decreases Na ⁺ ,K ⁺ -ATPase activity through NMDA receptor and protein kinase G activation in the hippocampus of rats. <i>European Journal of Pharmacology</i> , 2012, 684, 79-86. | 3.5 | 34 |
| 29 | Chrysin protects against behavioral, cognitive and neurochemical alterations in a 6-hydroxydopamine model of Parkinson's disease. <i>Neuroscience Letters</i> , 2019, 706, 158-163. | 2.1 | 34 |
| 30 | The role of nitric oxide on the convulsive behavior and oxidative stress induced by methylmalonate: An electroencephalographic and neurochemical study. <i>Epilepsy Research</i> , 2007, 73, 228-237. | 1.6 | 33 |
| 31 | Involvement of hippocampal CAMKII/CREB signaling in the spatial memory retention induced by creatine. <i>Amino Acids</i> , 2012, 43, 2491-2503. | 2.7 | 32 |
| 32 | Evaluation of potential gender-related differences in behavioral and cognitive alterations following pilocarpine-induced status epilepticus in C57BL/6 mice. <i>Physiology and Behavior</i> , 2015, 143, 142-150. | 2.1 | 31 |
| 33 | The Impact of Previous Physical Training on Redox Signaling after Traumatic Brain Injury in Rats: A Behavioral and Neurochemical Approach. <i>Journal of Neurotrauma</i> , 2016, 33, 1317-1330. | 3.4 | 31 |
| 34 | Creatine decreases convulsions and neurochemical alterations induced by glutaric acid in rats. <i>Brain Research</i> , 2007, 1185, 336-345. | 2.2 | 30 |
| 35 | Rosmarinic acid is anticonvulsant against seizures induced by pentylenetetrazol and pilocarpine in mice. <i>Epilepsy and Behavior</i> , 2016, 62, 27-34. | 1.7 | 29 |
| 36 | The involvement of the polyamines binding sites at the NMDA receptor in creatine-induced spatial learning enhancement. <i>Behavioural Brain Research</i> , 2008, 187, 200-204. | 2.2 | 28 |

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|----|--|-----|-----------|
| 37 | Prostaglandin E ₂ potentiates methylmalonate-induced seizures. <i>Epilepsia</i> , 2012, 53, 189-198. | 5.1 | 28 |
| 38 | Contrasting effects of Na ⁺ , K ⁺ -ATPase activation on seizure activity in acute versus chronic models. <i>Neuroscience</i> , 2015, 298, 171-179. | 2.3 | 27 |
| 39 | Aflatoxin B1 reduces non-enzymatic antioxidant defenses and increases protein kinase C activation in the cerebral cortex of young rats. <i>Nutritional Neuroscience</i> , 2018, 21, 268-275. | 3.1 | 27 |
| 40 | Kinetic characterization of [³ H]glutamate uptake inhibition and increase oxidative damage induced by glutaric acid in striatal synaptosomes of rats. <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 65-72. | 1.6 | 26 |
| 41 | Acute creatine administration improves mitochondrial membrane potential and protects against pentylenetetrazol-induced seizures. <i>Amino Acids</i> , 2013, 44, 857-868. | 2.7 | 26 |
| 42 | Long-term decrease in Na ⁺ ,K ⁺ -ATPase activity after pilocarpine-induced status epilepticus is associated with nitration of its alpha subunit. <i>Epilepsy Research</i> , 2014, 108, 1705-1710. | 1.6 | 26 |
| 43 | Delayed creatine supplementation counteracts reduction of GABAergic function and protects against seizures susceptibility after traumatic brain injury in rats. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 92, 328-338. | 4.8 | 26 |
| 44 | Î±-Spinasterol: a COX inhibitor and a transient receptor potential vanilloid 1 antagonist presents an antinociceptive effect in clinically relevant models of pain in mice. <i>British Journal of Pharmacology</i> , 2017, 174, 4247-4262. | 5.4 | 25 |
| 45 | Depressive, inflammatory, and metabolic factors associated with cognitive impairment in patients with epilepsy. <i>Epilepsy and Behavior</i> , 2018, 86, 49-57. | 1.7 | 25 |
| 46 | Chronic administration of methylmalonate on young rats alters neuroinflammatory markers and spatial memory. <i>Immunobiology</i> , 2013, 218, 1175-1183. | 1.9 | 24 |
| 47 | Morphological and electrophysiological properties of pyramidal-like neurons in the stratum oriens of Cornu ammonis 1 and Cornu ammonis 2 area of Proechimys. <i>Neuroscience</i> , 2011, 177, 252-268. | 2.3 | 23 |
| 48 | Effect of atorvastatin on behavioral alterations and neuroinflammation during epileptogenesis. <i>Epilepsy and Behavior</i> , 2018, 78, 109-117. | 1.7 | 23 |
| 49 | Creatine increases hippocampal Na ⁺ ,K ⁺ -ATPase activity via NMDA-calcineurin pathway. <i>Brain Research Bulletin</i> , 2012, 88, 553-559. | 3.0 | 22 |
| 50 | Involvement of NO in the convulsive behavior and oxidative damage induced by the intrastriatal injection of methylmalonate. <i>Neuroscience Letters</i> , 2005, 376, 116-120. | 2.1 | 20 |
| 51 | Chrysin suppress immune responses and protects from experimental autoimmune encephalomyelitis in mice. <i>Journal of Neuroimmunology</i> , 2019, 335, 577007. | 2.3 | 20 |
| 52 | Fumonisin B1 facilitates seizures induced by pentylenetetrazol in mice. <i>Neurotoxicology and Teratology</i> , 2015, 51, 61-67. | 2.4 | 18 |
| 53 | Methylmalonate Induces Inflammatory and Apoptotic Potential: A Link to Glial Activation and Neurological Dysfunction. <i>Journal of Neuropathology and Experimental Neurology</i> , 2017, 76, 160-178. | 1.7 | 18 |
| 54 | Lipopolysaccharide enhances glutaric acid-induced seizure susceptibility in rat pups: Behavioral and electroencephalographic approach. <i>Epilepsy Research</i> , 2011, 93, 138-148. | 1.6 | 17 |

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|----|---|-----|-----------|
| 55 | Possible role for glutathione-S-transferase in the oligozoospermia elicited by acute zearalenone administration in Swiss albino mice. <i>Toxicol</i> , 2012, 60, 358-366. | 1.6 | 16 |
| 56 | Fish oil attenuates methylmalonate-induced seizures. <i>Epilepsy Research</i> , 2013, 105, 69-76. | 1.6 | 16 |
| 57 | Increased xanthine oxidase-related ROS production and TRPV1 synthesis preceding DOMS post-eccentric exercise in rats. <i>Life Sciences</i> , 2016, 152, 52-59. | 4.3 | 16 |
| 58 | Reconstituted spray-dried phenytoin-loaded nanocapsules improve the in vivo phenytoin anticonvulsant effect and the survival time in mice. <i>International Journal of Pharmaceutics</i> , 2018, 551, 121-132. | 5.2 | 15 |
| 59 | Methylmalonate-induced seizures are attenuated in inducible nitric oxide synthase knockout mice. <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 157-163. | 1.6 | 14 |
| 60 | Time-dependent effects of treadmill exercise on aversive memory and cyclooxygenase pathway function. <i>Neurobiology of Learning and Memory</i> , 2012, 98, 182-187. | 1.9 | 14 |
| 61 | Pentylentetrazol-induced seizures are associated with Na ⁺ ,K ⁺ -ATPase activity decrease and alpha subunit phosphorylation state in the mice cerebral cortex. <i>Epilepsy Research</i> , 2013, 105, 396-400. | 1.6 | 14 |
| 62 | HOE-140, an antagonist of B2 receptor, protects against memory deficits and brain damage induced by moderate lateral fluid percussion injury in mice. <i>Psychopharmacology</i> , 2014, 231, 1935-1948. | 3.1 | 14 |
| 63 | A neuronal disruption in redox homeostasis elicited by ammonia alters the glycine/glutamate (GABA) cycle and contributes to MMA-induced excitability. <i>Amino Acids</i> , 2016, 48, 1373-1389. | 2.7 | 14 |
| 64 | Apoptotic Markers Are Increased in Epilepsy Patients: A Relation with Manganese Superoxide Dismutase Ala16Val Polymorphism and Seizure Type through IL-1 β and IL-6 Pathways. <i>BioMed Research International</i> , 2020, 2020, 1-9. | 1.9 | 14 |
| 65 | Therapeutic potential of beta-caryophyllene against aflatoxin B1-Induced liver toxicity: biochemical and molecular insights in rats. <i>Chemico-Biological Interactions</i> , 2021, 348, 109635. | 4.0 | 14 |
| 66 | GM1 ganglioside induces vasodilation and increases catalase content in the brain. <i>Free Radical Biology and Medicine</i> , 2007, 43, 924-932. | 2.9 | 13 |
| 67 | Accumulation, elimination, and effects of parenteral exposure to aluminum in newborn and adult rats. <i>Journal of Inorganic Biochemistry</i> , 2013, 128, 215-220. | 3.5 | 13 |
| 68 | Cerebral Malaria Causes Enduring Behavioral and Molecular Changes in Mice Brain Without Causing Gross Histopathological Damage. <i>Neuroscience</i> , 2018, 369, 66-75. | 2.3 | 13 |
| 69 | Atorvastatin withdrawal elicits oxidative/nitrosative damage in the rat cerebral cortex. <i>Pharmacological Research</i> , 2013, 71, 1-8. | 7.1 | 12 |
| 70 | Acute adenosine increases cardiac vagal and reduces sympathetic efferent nerve activities in rats. <i>Experimental Physiology</i> , 2012, 97, 719-729. | 2.0 | 11 |
| 71 | EP2 receptor agonist ONO-AE1-259-01 attenuates pentylentetrazole- and pilocarpine-induced seizures but causes hippocampal neurotoxicity. <i>Epilepsy and Behavior</i> , 2017, 73, 180-188. | 1.7 | 11 |
| 72 | Oral administration of lutein attenuates ethanol-induced memory deficit in rats by restoration of acetylcholinesterase activity. <i>Physiology and Behavior</i> , 2019, 204, 121-128. | 2.1 | 11 |

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|----|---|-----|-----------|
| 73 | The immunological influence of physical exercise on TBI-induced pathophysiology: Crosstalk between the spleen, gut, and brain. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 130, 15-30. | 6.1 | 11 |
| 74 | Standardized extract of <i>Dicksonia sellowiana</i> Presl. Hook (Dicksoniaceae) decreases oxidative damage in cultured endothelial cells and in rats. <i>Journal of Ethnopharmacology</i> , 2011, 133, 999-1007. | 4.1 | 10 |
| 75 | Galangin Prevents Increased Susceptibility to Pentylentetrazol-Stimulated Seizures by Prostaglandin E2. <i>Neuroscience</i> , 2019, 413, 154-168. | 2.3 | 10 |
| 76 | Nitric oxide and potassium channels mediate GM1 ganglioside-induced vasorelaxation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2009, 380, 487-495. | 3.0 | 9 |
| 77 | Traxoprodil decreases pentylentetrazol-induced seizures. <i>Epilepsy Research</i> , 2012, 100, 12-19. | 1.6 | 9 |
| 78 | Na ⁺ , K ⁺ -ATPase Activating Antibody Displays in vitro and in vivo Beneficial Effects in the Pilocarpine Model of Epilepsy. <i>Neuroscience</i> , 2018, 377, 98-104. | 2.3 | 9 |
| 79 | Involvement of MnSOD Ala16Val polymorphism in epilepsy: A relationship with seizure type, inflammation, and metabolic syndrome. <i>Gene</i> , 2019, 711, 143924. | 2.2 | 9 |
| 80 | l-NAME prevents GM1 ganglioside-induced vasodilation in the rat brain. <i>Neurochemistry International</i> , 2008, 53, 362-369. | 3.8 | 8 |
| 81 | Chronic deficit in the expression of voltage-gated potassium channel Kv3.4 subunit in the hippocampus of pilocarpine-treated epileptic rats. <i>Brain Research</i> , 2011, 1368, 308-316. | 2.2 | 8 |
| 82 | Epileptiform activity in the limbic system. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 565-593. | 2.1 | 7 |
| 83 | <i>Trypanosoma evansi</i> : Concentration of 3-nitrotyrosine in the brain of infected rats. <i>Experimental Parasitology</i> , 2011, 129, 27-30. | 1.2 | 7 |
| 84 | Commentary on Kaushik et al.: Prostaglandin D2 is crucial for seizure suppression and postictal sleep. Novel evidence supporting a role for prostanoid receptors in seizure control. <i>Experimental Neurology</i> , 2014, 257, 157-161. | 4.1 | 7 |
| 85 | Increased susceptibility to pentylentetrazol following survival of cerebral malaria in mice. <i>Epilepsia</i> , 2016, 57, e140-5. | 5.1 | 7 |
| 86 | Intrahippocampal infusion of spermidine improves memory persistence: Involvement of protein kinase A. <i>Neurobiology of Learning and Memory</i> , 2016, 131, 18-25. | 1.9 | 7 |
| 87 | Modulation of Na ⁺ /K ⁺ -ATPase activity by triterpene 3 β , 6 β , 16 β -trihydroxilup-20 (29)-ene (TTHL) limits the long-term secondary degeneration after traumatic brain injury in mice. <i>European Journal of Pharmacology</i> , 2019, 854, 387-397. | 3.5 | 7 |
| 88 | Recent advances in assessing the effects of mycotoxins using animal models. <i>Current Opinion in Food Science</i> , 2022, 47, 100874. | 8.0 | 7 |
| 89 | Ammonia role in glial dysfunction in methylmalonic acidemia. <i>Toxicology Letters</i> , 2018, 295, 237-248. | 0.8 | 6 |
| 90 | Potential therapeutic implications of ergogenic compounds on pathophysiology induced by traumatic brain injury: A narrative review. <i>Life Sciences</i> , 2019, 233, 116684. | 4.3 | 6 |

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|-----|--|-----|-----------|
| 91 | Phenytoin-loaded lipid-core nanocapsules improve the technological properties and in vivo performance of fluidised bed granules. <i>Materials Science and Engineering C</i> , 2020, 111, 110753. | 7.3 | 6 |
| 92 | Anticonvulsant activity of <i>Caryocar coriaceum</i> Wittm. fixed pulp oil against pentylenetetrazol-induced seizures. <i>Neurological Research</i> , 2017, 39, 667-674. | 1.3 | 5 |
| 93 | Involvement of the Cholinergic Parameters and Glial Cells in Learning Delay Induced by Glutaric Acid: Protection by N-Acetylcysteine. <i>Molecular Neurobiology</i> , 2019, 56, 4945-4959. | 4.0 | 5 |
| 94 | The role of mitochondrial bioenergetics and oxidative stress in depressive behavior in recurrent concussion model in mice. <i>Life Sciences</i> , 2020, 257, 117991. | 4.3 | 4 |
| 95 | Hepatic susceptibility to oxidative damage after repeated concomitant exposure to aspartame and aflatoxin B1 in rats. <i>Drug and Chemical Toxicology</i> , 2022, 45, 2780-2785. | 2.3 | 4 |
| 96 | Anticonvulsant activity of $\hat{1}^2$ -caryophyllene in association with pregabalin in a seizure model in rats. <i>Epilepsy Research</i> , 2022, 179, 106842. | 1.6 | 4 |
| 97 | Anticonvulsant-like effect of thromboxane receptor agonist U-46619 against pentylenetetrazol-induced seizures. <i>Epilepsy Research</i> , 2018, 146, 137-143. | 1.6 | 3 |
| 98 | MnSOD Ala16Val polymorphism in cognitive dysfunction in patients with epilepsy: A relationship with oxidative and inflammatory markers. <i>Epilepsy and Behavior</i> , 2020, 112, 107346. | 1.7 | 3 |
| 99 | Beta-caryophyllene attenuates short-term recurrent seizure activity and blood-brain-barrier breakdown after pilocarpine-induced status epilepticus in rats. <i>Brain Research</i> , 2022, 1784, 147883. | 2.2 | 3 |
| 100 | Subtle improvement of seizure susceptibility by atorvastatin treatment during epileptogenesis. <i>Pharmacological Reports</i> , 2018, 70, 364-371. | 3.3 | 2 |
| 101 | Sustained glial reactivity induced by glutaric acid may be the trigger to learning delay in early and late phases of development: Involvement of p75NTR receptor and protection by N-acetylcysteine. <i>Brain Research</i> , 2020, 1749, 147145. | 2.2 | 2 |
| 102 | Neuroprotective effects of thromboxane receptor antagonist SQ 29,548 after pilocarpine-induced status epilepticus in mice. <i>Epilepsy Research</i> , 2020, 160, 106277. | 1.6 | 2 |
| 103 | Efeitos do Foscarnet sobre a infecção pelos herpesvírus bovino tipos 1 e 5 em coelhos. <i>Pesquisa Veterinaria Brasileira</i> , 2010, 30, 623-630. | 0.5 | 1 |
| 104 | Physical Exercise as a Modulator of Vascular Pathology and Thrombin Generation to Improve Outcomes After Traumatic Brain Injury. <i>Molecular Neurobiology</i> , 2021, , 1. | 4.0 | 0 |