Neuroprotective Actions

of Chanca Piedra (Phyllanthus niruri)

Actions on the Brain:

He, J., et al. "Phyllanthin from *Phyllanthus amarus* exerts neuroprotective effects against spinal cord injury in experimental rats." *Arq. Neuropsiquiatr.* 2025 May; 83(5): 1-9.

Lahoti, J., et al. "Neuroprotective potential of *Phyllanthus niruri* on diazepam induced amnesia in mice." *IJIRCT* 2024 May; 10(3): 2405053.

Faloye, K., et al. "Revealing the acetylcholinesterase inhibitory potential of *Phyllanthus amarus* and its phytoconstituents: *in vitro* and *in silico* approach." *Bioinform. Biol Insights.* 2022 Aug 26; 16: 11779322221118330.

Oyeleye, S., et al. "Phyllanthus amarus Schumach. & Thonn. and Momordica charantia L extracts improve memory function, attenuate cholinergic and purinergic dysfunction, and suppress oxidative stress in the brain of doxorubicin—treated rats." Phytomed. Plus. 2022 May; 2(2): 100283.

Hashim, A., et al. "Evaluation of the neuroprotective activity of *P. amarus* in attenuating arsenic-induced neurotoxicity - an *in vivo* study." *Phytomed. Plus.* 2022 Aug; 2(3): 100316.

Yang, Y., et al. "Geraniin protects against cerebral ischemia/reperfusion injury by suppressing oxidative stress and neuronal apoptosis via regulation of the Nrf2/HO-1 pathway." *Oxid. Med. Cell. Longev.* 2022 Feb; 2022:2152746.

Adedayo, B., et al. "Effect of *Andrographis paniculata* and *Phyllanthus amarus* leaf extracts on selected biochemical indices in *Drosophila melanogaster* model of neurotoxicity." *Drug. Chem. Toxicol*, 2020 Jan 3: 1-10.

Ismail, E., et al. "Phyllanthus amarus prevents LPS-mediated BV2 microglial activation via MyD88 and NF-κB signaling pathways." BMC Complement. Med. Ther. 2020 Jul; 20(1): 202.

Tao, Z., et al. "Phyllathin from *Phyllanthus amarus* ameliorates epileptic convulsion and kindling associated post-ictal depression in mice via inhibition of NF-κB/TLR-4 pathway." *Dose Response*. 2020 Aug; 18(3): 1559325820946914.

Chopade, A., et al. "An insight into the anxiolytic effects of lignans (Phyllanthin and Hypophyllanthin) and Tannin (Corilagin) rich extracts of *Phyllanthus amarus*: in-silico and *in-vivo* approaches." *Comb. Chem. High Throughput Screen.* 2021; 24(3): 415-422.

Alagan, A., et al. "*Phyllanthus amarus* protects against spatial memory impairment induced by lipopolysaccharide in mice." *Bioinform.* 2019 Aug; 15(8): 535-541.

Alagan, A., et al. "Protective effects of *Phyllanthus amarus* against lipopolysaccharide- induced neuroinflammation and cognitive impairment in rats." *Front. Pharmacol.* 2019 Jun; 10: 632.

Tong, F., et al. "Corilagin attenuates radiation-induced brain injury in mice." *Mol. Neurobiol.* 2016 Dec; 53(10): 6982-6996.

Youn, K., et al. "Protective role of corilagin on Aβ25-35-induced neurotoxicity: suppression of NF-κB signaling pathway." *J. Med. Food.* 2016 Oct; 19(10): 901-911.

Uddin, S., et al. "Neuroprotective effect of *Phyllanthus acidus* L. on learning and memory impairment in scopolamine-induced animal model of dementia and oxidative stress: Natural wonder for regulating the development and progression of Alzheimer's Disease." *Adv. Alzheim. Dis.* 2016 Jun; 5(2): 53-72.

Koay, Y., et al. "Isocorilagin, a cholinesterase inhibitor from *Phyllanthus niruri*." *Nat. Prod. Commun*. 2014 Apr; 9(4): 515-7.

Ambali, S., et al. "Alleviating effect of *Phyllanthus niruri* on sensorimotor and cognitive changes induced by subacute chlorpyrifos exposure in Wistar rats." *Am. J. Med. Med. Sci.* 2012; 2(3): 50-58.

Chen, Y., et al. "Corilagin prevents tert-butyl hydroperoxide-induced oxidative stress injury in cultured N9 murine microglia cells." *Neurochem. Int.* 2011 Aug; 58(2): 290-296.

Joshi, H., et al. "Evaluation of the antiamnesic effects of *Phyllanthus amarus* in mice." *Colomb. Med.* 2007; 38: 132-139.

Souza, C., et al. "Compounds extracted from *Phyllanthus* and *Jatropha elliptica* inhibit the binding of [3H]glutamate and [3H]GMP-PNP in rat cerebral cortex membrane." *Neurochem. Res.* 2000; 25(2): 211-15.

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