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Supplementation of lycopene attenuates lipopolysaccharide-induced amyloidogenesis and cognitive impairments via mediating neuroinflammation and oxidative stress

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Abbreviations: LYC, Lycopene; LPS, Lipopolysaccharide; AD, Alzheimer's disease; PD, Parkinson's disease ; CNS, Central nervous system; A β , Amyloid-beta; APP, Amyloid precursor protein; BACE1, β -secretase 1; ADAM 10, a disintegrin and metalloprotease 10; ROS, Reactive oxygen species; HE, Hematoxylin-eosin staining; IHC, Immunohistochemistry; GSH, Glutathione; SOD, Superoxide dismutase; CAT, Catalase; iNOS, Inducible nitric oxide synthase; COX-2, Cyclooxygenase-2; IL-1 β , Interleukin-1 beta; IL-6 Interleukin 6; IL-10, Interleukin 10; MMP, Matrix metalloproteinase; MAPK, Mitogen-activated protein kinase; ERK1/2, Extracellular signal-regulated kinases 1/2; JNK, C-Jun N-terminal kinase; NF κ B, Nuclear factor kappa B; NAC , N-Acetyl-L-cysteine

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