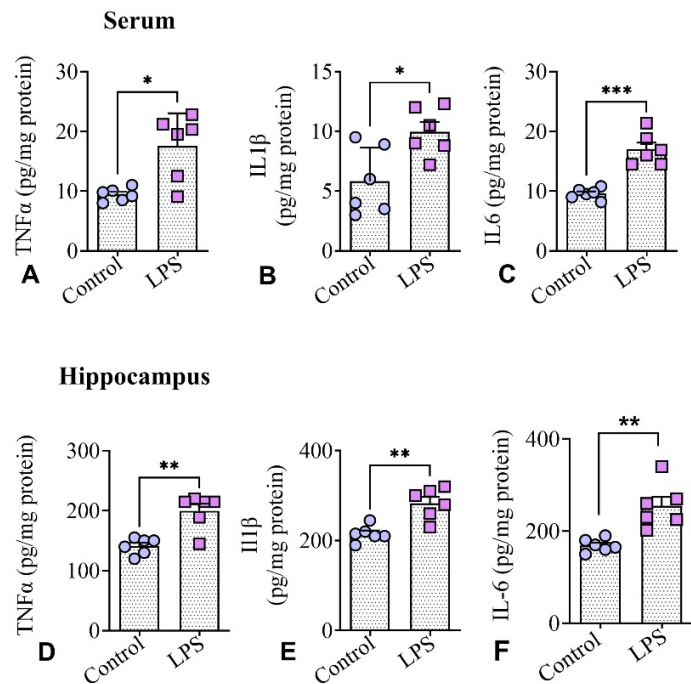
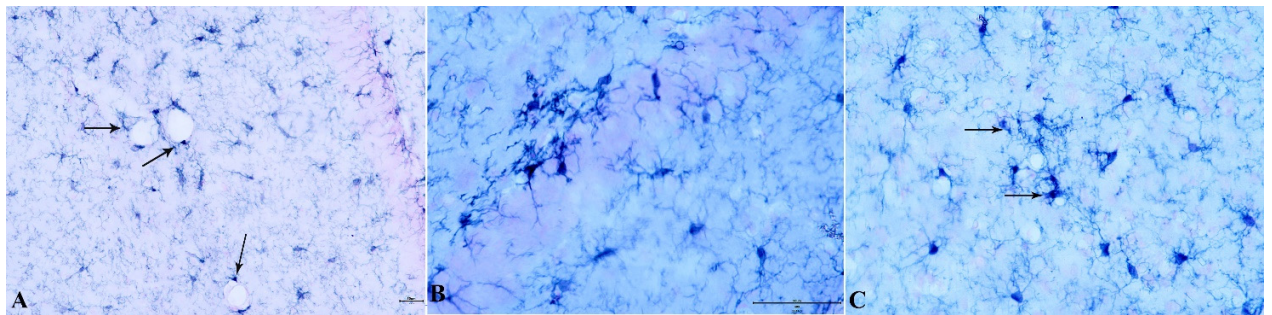




Supplementary Figure S1. Administration of lipopolysaccharide elicited robust systemic and peripheral inflammatory activation before MSC intervention. Bar graphs A–F illustrate serum (A–C) and hippocampal (D–F) concentrations of the pro-inflammatory cytokines TNF- α (A, D), IL-1 β (B, E), and IL-6 (C, F). *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$.



Supplementary Figure S2. Perivascular clustering of microglia in hippocampal and prefrontal regions following chronic LPS exposure. Representative IBA1 immunohistochemical images from vehicle-treated LPS (LPS-Veh) mice showing microglial clustering patterns. Panels A and C illustrate IBA1⁺ microglia aggregated in proximity to blood vessels (arrows), consistent with perivascular accumulation, while panel B shows clustered microglia within regions enriched in neuronal cell bodies. Scale bars = 50 μ m.