

## عنوان مقاله:

Frankincense improves memory retrieval in rats treated with Lipopolysaccharide

## محل انتشار:

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## خلاصه مقاله:

Introduction: Frankincense has been shown to possess anti-inf lammatory activity. In this studythe effect of pretreatment with the hydro-alcoholic extract of frankincense on memory retrievalwas assessed in lipopolysaccharide (LPS) treated rats.Methods: Forty-two adult male Wistar rats were distributed into Y groups of ۶ each. One groupreceived LPS (1 mg/kg; i.p) pre-test. The control group received saline (1 ml/kg; i.p). Y groups of animals received frankincense (Δο mg/kg; P.O) or DMSO Δ% (\ ml/kg; P.O) and Ψο minutes laterLPS (\ mg/kg; i.p). Two other groups of animals received frankincense (\( \Delta \) mg/kg; P.O) or DMSO\( \Delta \) (\( \mathre{\text{Inl/kg}}; P.O) and \( \mathre{\text{Po}} \) minutes later saline (\( \mathre{\text{Inl/kg}}; i.p). \) Another group of rats received LPS(1 mg/kg; i.p) and extstyle eexperimental groups, memory retrieval was assessed & hours following the last injection, using a passive avoidancetask (PAT). Hippocampal TNF-α levels were measured by ELISA as an index of LPS-inducedneuroinf lammation.Results: LPS impaired memory retrieval by decreasing step-through latency (STL), significantly.LPS also increased levels of TNF-α in the hippocampus as compared to the control group. Administration of frankincense (۵. mg/kg; P.O) before LPS (1 mg/kg; i.p) improved memoryretrieval as compared to the control group. Frankincense reduced hippocampal TNF-α level in the LPS treated rats, significantly, compared to the control group. Conclusion: The results indicate that the hydro-alcoholic extract of frankincense has the potentialto improve memory retrieval in LPS .treated rats, possibly via an anti-neuroinf lammatory activity

کلمات کلیدی:

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