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# Protective effects of *Alpinae Oxyphyllae Fructus* extracts on lipopolysaccharide-induced animal model of Alzheimer's disease

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## ABSTRACT

### *Ethnopharmacological relevance*

*Alpinae Oxyphyllae Fructus* (AOF) with warming and tonifying the kidney and spleen, anti-salivation, anti-polyuria and anti-diarrhea functions is the dried ripe fruits of *Alpinia oxyphylla* Miq. (Zingiberaceae). As a traditional Chinese medicine, its application history is very long.

### *Aims of the study*

The purpose of our study is to investigate the effects of different solvent extracts from AOF on lipopolysaccharide (LPS)-induced animal model of Alzheimer's disease (AD) to elucidate the traditional medical theories with modern pharmacological methods and provide a reference for further clarifying its active components and mechanisms.

### *Materials and methods*

The method of stepwise screening was adopted in this paper. The animals were divided into 9 groups, including control (CT) group, model (MD) group, donepezil (DPZ) group, total extract (TT) group, petroleum ether extract (PE) group, chloroform extract (CF) group, ethyl acetate extract (EA) group, n-butanol extract (NB) group and water extract (WT) group. The anti-amnesic effects of different solvent extracts from AOF were measured in LPS-induced memory deficits mice by Y maze test and Morris water maze (MWM) test. Hematoxylin eosin (HE) staining was applied to observe pathological

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