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# **Liujunzi Tang, a famous traditional Chinese medicine, ameliorates cigarette smoke-induced mouse model of COPD**

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## **Abstract**

### *Ethnopharmacological relevance:*

Liujunzi Tang is a traditional herbal medicine widely used in East Asia and clinically applied to treat Phlegm-Heat Syndrome. The purpose of the present study was to investigate the protective effects of Liujunzi Tang on cigarette smoke-induced (CS) mouse model of chronic obstructive pulmonary disease (COPD) and explore its potential molecular mechanism.

### *Materials and methods*

The mice received 1 h of cigarette smoke for 8 weeks. The serum levels of tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ), interleukin (IL)-1 $\beta$  and IL-6 were determined by enzyme-linked immunosorbent assay (ELISA) kits. Superoxide dismutase (SOD) and malondialdehyde (MDA) were tested by biochemical methods. Histopathological alteration was observed by

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