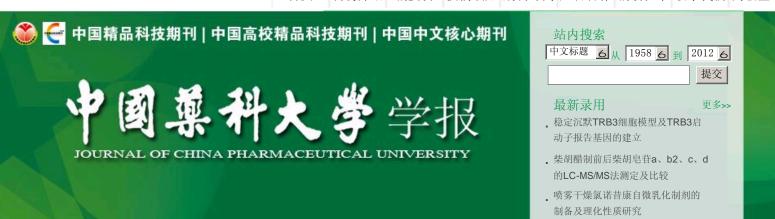


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## 川芎嗪对脂多糖诱导的单核细胞组织因子表达的抑制作用

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中文摘要:研究川芎嗪对内毒素脂多糖(LPS)诱导单核细胞组织因子表达的影响,为川芎嗪防治血栓性疾病提供实验依据。采用新鲜分离的大鼠外周血单核细胞经过与LPS及川芎嗪共培养一定时间后,运用改良发色底物法测定组织因子的促凝活性,并运用RT-PCR技术检测组织因子mRNA的变化。实验发现,LPS(100 ng/mL, 5 h)能显著诱导单核细胞组织因子促凝活性的增强,川芎嗪(0.01~100 μmol/L)能明显抑制LPS诱导的TF促凝活性的增强,其IC<sub>50</sub> 约为0.29 μmol/L。LPS(100 ng/mL)作用2 h后能显著增加组织因子mRNA的表达,川芎嗪(10μmol/L)能显著抑制LPS诱导的组织因子mRNA的表达。实验结果表明,川芎嗪可显著抑制LPS诱导的单核细胞TF促凝活性及其mRNA的表达。

中文关键词:川芎嗪 脂多糖 组织因子 单核细胞

## Inhibitory effect of tetramethylpyrazine on tissue factor expression and procoagulant activity induced by lipopolysaccharide in monocytes

Abstract: The present study was aim to investigate the effects of tetramethylpyrazine (TMP) on lipopolysaccharide (LPS)-induced tissue factor (TF) expression and procoagulant activity in rat monocytes, which might provide some clues in the therapy of thrombotic disease. Freshly isolated peripheral blood monocytes were cultured in media containing LPS and/or TMP. TF procoagulant activity was measured by chromogenic substrate assay, and TF mRNA expression was determined by reverse transcription polymerase chain reaction (RT-PCR). It was found that TF procoagulant activity of rat monocytes was significantly increased under LPS stimulation (100 ng/mL, 5 h), and that TMP remarkedly inhibited the TF procoagulant activity in the concentration range from 0.01 µmol/L to 100 µmol/L, whose IC 50 was estimated to be 0.29 µmol/L. Furthermore, TMP (10µmol/L) also inhibited the expression of LPS-induced expression of TF mRNA in rat monocytes. Hence TMP significantly inhibits both LPS-induced TF procoagulant activity and TF mRNA expression in monocytes.

keywords:tetramethylpyrazine lipopolysaccharide tissue factor monocytes

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