本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

### 论文

# 肉豆蔻提取物对IFN-γ干预的小胶质细胞BV2的调控作用

文现宇,毛翘,崔春爱

延边大学基础医学院解剖学教研部, 吉林 延吉 133002

# 摘要:

目的 探讨肉豆蔻提取物对鼠性小胶质BV2细胞的作用机制。方法 实验分为对照组、IFN-γ模型组、肉豆蔻提取 ト参考文献 物复合处理组。采用WST-8试剂盒,观察肉豆蔻提取物对体外培养的鼠性小胶质细胞BV2生存率的影响,采用分 子生物学技术,检测IFN-γ所诱导的诱导型一氧化氮合酶(iNOS)和环氧合酶2(COX-2)的表达水平。结果 肉豆蔻 提取物对鼠性小胶质细胞BV2无毒性,且抑制了IFN-y所诱导的iNOS和COX-2的表达,与IFN-y模型组比较差异 显著(P<0.01)。结论 肉豆蔻提取物对鼠性小胶质细胞BV2具有很好的抗神经毒性及抗炎作用。

关键词: 肉豆蔻; 干扰素Ⅱ型; 小胶质细胞

# Effects of nutmeg extraction on microglial BV2 cells treated with IFN-y

WEN Xian-yu, MAO qiao, CUI Chun-ai

Department of Anatomy, School of Basic Medical Science, Yanbian University, Yanji 133002, Jilin, China

#### Abstract:

Objective To study the effect of nutmeg ethanol extract on murine microglial BV2 cells. Methods Murine microglial BV2 cells were divided into the control group, the IFN-γ model group, and the combined nutmeg ethanol extract treatment group. The WST-8 kit was used to detect the effect of nutmeg ethanol extract on murine microglial BV2 cell viability. The effects of interferon-γ(IFN-γ) and nutmeg ethanol extract on protein expressions of inducible nitric oxide synthase(iNOS) and cyclooxygenase 2(COX-2) in vitro were measured by Western blot. Results Nutmeg ethanol extract treatment did not affect cell viability as determined by the WST-8 cell counting kit. Western blot revealed that nutmeg ethanol extract could inhibit protein expressions of iNOS and COX-2 induced by IFN-γ. There were significant differences between the combined nutmeg ethanol extract treatment group and the IFN-γmodel group(P<0.01). Conclusion Nutmeg ethanol extract could exert antineurotoxicity and anti-inflammatory effects on murine microglial BV2 cells.

Keywords: Myristica fragrans; Interferon type II; Microglial cells

# 收稿日期 2011-05-27 修回日期 网络版发布日期

DOI:

### 基金项目:

吉林省教育厅科研基金资助项目[吉教科合字(2011)第4号]

通讯作者: 崔春爱(1970-), 女, 博士, 副教授, 硕士生导师, 主要从事神经解剖学研究。 E-mail:

cuicha@ybu.edu.cn

作者简介: 文现字(1987-), 男,硕士研究生,主要从事神经解剖学的研究。

作者Email:

### 参考文献:

### 本刊中的类似文章

扩展功能

本文信息

- Supporting info
- ▶ PDF(529KB)
- ▶[HTML全文]
- ▶ 参考文献[PDF]

## 服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶引用本文
- Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

## 本文关键词相关文章

肉豆蔻; 干扰素Ⅱ型; 小胶质 细胞