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Authors: Baoning Qi, Chuandao Shi, Juanjuan Meng, Shouzhu Xu, Juntian Liu



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Resveratrol alleviates ethanol-induced neuroinflammation *in vivo* and *in vitro*: Involvement of TLR2-MyD88-NF- κ B pathway

Running title: Resveratrol alleviates EtOH-induced neuroinflammation

Baoning Qi^{1,2}, Chuandao Shi², Juanjuan Meng², Shouzhu Xu¹, Juntian Liu^{1*}

1 Department of Pharmacology, School of Medicine, Xi'an Jiaotong University, 76 West Yanta Road, Xi'an, PR China, 710061

2 Department of Public Health, Shaanxi University of Chinese Medicine, Xianyang city, PR China, 712046.

*To whom all correspondence should be addressed: Juntian Liu, Department of Pharmacology, School of Medicine, Xi'an Jiaotong University, 76 West Yanta Road, Xi'an 710061, PR China Tel.: +86 29 82655188, Fax: +86 29 82655188, E-mail address: ljt@mail.xjtu.edu.cn

Highlights

- Resveratrol prevents deficits in spatial reference memory following ethanol administration.
- Resveratrol reverses EtOH-induced TLR2 activation in microglia.
- Resveratrol mitigated activation of the TLR2/MyD88/NF- κ B pathway

Abstract

Excessive ethanol (EtOH) intake affects cognitive function and leads to permanent learning and memory deficits. EtOH-induced neuroinflammation plays an important role in EtOH neurotoxicity. Studies have shown that EtOH activates microglia and induces an inflammatory response. Resveratrol (Rsv) is a natural polyphenol found in a wide variety of plants and fruits, and produces the neuroprotective and anti-

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