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**Manuscript Type:** ORIGINAL ARTICLE

*Basic Study*

**Antioxidant Activity and Hepatoprotective Effect of 10 Medicinal Herbs on  
CCl<sub>4</sub>-induced Liver Injury in Mice**

Xiao Meng, Guo-Yi Tang, Pin-He Liu, Chan-Juan Zhao, Qing Liu, Hua-Bin Li

**Abstract**

BACKGROUND

Many natural products confer health benefits against diverse diseases through

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Oct 06, 2011 · The medicinal herb *Artemisia campestris* has been found to scavenge free radicals and therein to exert a hepatoprotective effect against **CCI 4-induced liver injury**. Similarly, ginsenosides are reported to contribute to protection against CCI 4-induced hepatotoxicity in rats, ostensibly by their antioxidant properties.

**Cited by:** 145

**Author:** Hai Zhong Huo, Bing Wang, Yong Kang ...

**Publish Year:** 2011

## Antioxidant activities and hepatoprotective potential of ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/jfbc.12484>

It was found that the ethyl acetate fraction (EAF) from *D. rupestre* displayed strong antioxidant activity. We also demonstrate that EAF could lessen CCI 4 -**induced acute liver injury in mice**. **Also, rosmarinic acid may play an important role in the antioxidant activity and hepatoprotective effect for EAF.**

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**Author:** Chang-San Zhu, Kun Liu, Jun-Li Wang,...

**Publish Year:** 2018

## Hepatoprotective effects of blue honeysuckle on CCl4 ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6341158>

Through the assessment of the key parameters of the hepatoprotective effects on CCI 4 -**induced acute liver injury in mice**, the present work demonstrated that the oral pre-administration of BHe, BHw, and BHj exerted favorable hepatoprotective effects through the **activation of hepatic antioxidant defense systems**; the strongest effects occurred in BHe, followed by BHw and BHj.

**Cited by:** 6

**Author:** You-Suk Lee, Il Je Cho, Joo Wan Kim, ...

**Publish Year:** 2019

## Hepatoprotective and antioxidant activity of anthocyanins ...

<https://www.sciencedirect.com/science/article/pii/S1756464613001783>



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Cited by: 2 Author: Chang-San Zhu, Kun Liu, Jun-Li Wang, Ji...  
Publish Year: 2018

### ANTIOXIDANT ACTIVITY IN VITRO AND HEPATOPROTECTIVE ...

<https://www.ncbi.nlm.nih.gov/pubmed/28487901>

Aug 12, 2016 · The protective effects on carbon tetrachloride (CCl<sub>4</sub>)-induced acute liver injury in mice which was investigated by analyzing the result of biochemical parameters such as glutamic oxaloacetic transaminase (GOT) and glutamic pyruvic transaminase (GPT) in serum, superoxide dismutase (SOD) and malondialdehyde (MDA) in liver tissue homogenate.

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Publish Year: 2018

### [Hepatoprotective Effects of Apple Polyphenols on CCl<sub>4</sub> ...](#)

<https://pubs.acs.org/doi/10.1021/jf903070a>

In this study, the hepatoprotective effects of apple polyphenols (AP, Appjfnol) against CCl<sub>4</sub>-induced acute liver damage in Kunming mice as well as the possible mechanisms were investigated. Mice were treated with AP (200, 400, and 800 mg/kg, ig) for seven consecutive days prior to the administration of CCl<sub>4</sub> (0.1%, intraperitoneally). The serum levels of alanine aminotransferase (ALT) and ...

Cited by: 193 Author: Jingyu Yang, Yang Li, Fang Wang, Chunf...

Publish Year: 2010

### [Hepatoprotective effects of blue honeysuckle on CCl<sub>4</sub> ...](#)

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Antioxidant and hepatoprotective effects of Schisandra chinensis pollen extract on CCl<sub>4</sub>-induced acute liver damage in mice. Food and Chemical Toxicology, 55, 234–240. 10...

Cited by: 7 Author: You-Suk Lee, Il Je Cho, Joo Wan Kim, Mi...

Publish Year: 2019

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<https://onlinelibrary.wiley.com/doi/pdf/10.1002/fsn3.893>

4 conferred favorable hepatoprotective effects. These re-sults demonstrated that BHe possessed suitable properties for use as a potent hepatoprotective medicinal food. KEYWORDS antioxidant, CCl<sub>4</sub>, liver, Lonicera caerulea, mice [Correction added on 31 January 2019 after online publication: Hae-Jeung Lee and her information have been added on the