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Name of Journal: World Journal of Gastroenterology

Manuscript NO: 56083

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Basic Study

**Antioxidant Activity and Hepatoprotective Effect of 10 Medicinal Herbs on
CCl₄-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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Antioxidant Activity and Hepatoprotective Effect of 10 Medicinal H



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Hepatoprotective and Antioxidant Effects of Licorice ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3210994>

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.**

Cited by: 2

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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Antioxidant activities and hepatoprotective potential of ...

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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 (CCl₄)-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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Cited by: 2

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

Publish Year: 2018

[Hepatoprotective Effects of Apple Polyphenols on CCl₄ ...](#)

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

In this study, the hepatoprotective effects of apple polyphenols (AP, Appjfnol) against CCl₄-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 CCl₄ (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 CCl₄ ...](#)

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

Antioxidant and hepatoprotective effects of Schisandra chinensis pollen extract on CCl₄ -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

[\[PDF\] Hepatoprotective effects of blue honeysuckle on CCl₄ ...](#)

<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, CCl₄, liver, Lonicera caerulea, mice [Correction added on 31 January 2019 after online publication: Hae-Jeung Lee and her information have been added on the