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Basic Study

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Celecoxib attenuates hepatocyte apoptosis through inhibition of endoplasmic reticulum stress in thioacetamide-induced cirrhotic rats

Su W et al. Celecoxib attenuates apoptosis through inhibit ERS

Wei Su, Yang Tai, Shi-Hang Tang, Yan-Ting Ye, Chong Zhao, Jin-Hang Gao, Bi-Guang Tuo, Cheng-Wei Tang

Abstract

BACKGROUND

Endoplasmic reticulum (ER) stress is an important mechanism in the progression of chronic and acute liver diseases, especially in the progression and recovery of liver fibrosis. Excessive and long-term ER stress induces apoptosis. ER stress-induced apoptosis is considered to be an important pathway in the development of liver fibrosis. Cyclooxygenase-2 (COX-2) induction is also closely related to ER stress. In our previous studies we showed that celecoxib, a COX-2 inhibitor, improves liver fibrosis and portal hypertension. However, the role and mechanism of celecoxib in alleviating

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Background: **Endoplasmic reticulum stress** (ER **stress**) plays a critical role in the pathogenesis of liver fibrosis; thus, it can be a potential therapeutic target of fibrosis. However, the mechanism of ER **stress** regulation in fibrosis, particularly **through** sirtuin 1 (SIRT1), remains unclear. The objective of this study was to investigate the effect of SIRT1-mediated **inhibition** of ER **stress** in ...

**Cited by:** 1

**Author:** Jie Zhu, Ruiwen Wang, Ting Xu, Shuai Z...

**Publish Year:** 2018

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Phosphocreatine **attenuates endoplasmic reticulum stress**-mediated hepatocellular **apoptosis** ameliorates insulin resistance in diabetic model for **apoptosis endoplasmic reticulum stress**





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The selective COX **inhibitor** has been proved to alleviate oxidative **stress** and inflammation in CCl<sub>4</sub>-treated **rats** [24]. Using TAA-induced **cirrhotic** rat model, Wen et al. have documented that ...

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**Author:** Alex Yui Hui, Wai Keung Leung, Henry Li...

**Publish Year:** 2006

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**Publish Year:** 2016

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<https://www.hindawi.com/journals/omcl/2020/8026838>

Acetaminophen (APAP) toxicity leads to severe acute liver injury (ALI) by inducing excessive oxidative **stress**, inflammatory response, and **hepatocyte apoptosis**. Imperatorin (IMP) is a furanocoumarin from *Angelica dahurica*, which has antioxidant and anti-inflammatory effects. However, its potential to ameliorate ALI is unknown. In this study, APAP-treated genetic knockout of Farnesoid X receptor ...