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### Hydrogen resuscitation, a new cytoprotective approach

XF Zheng, XJ Sun, ZF Xia - Clinical and Experimental ..., 2011 - Wiley Online Library

... Hydrogen resuscitation could be an effective anti-oxidant, anti-apoptotic, anti-inflammatory treatment, as ... More work is needed to identify the precise mechanism underlying the effects of hydrogen and to validate the therapeutic potential of hydrogen resuscitation in the ...

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[\[PDF\] waterh2.com](#)

### [HTML] Hydrogen improves glycemic control in type1 diabetic animal model by promoting glucose uptake into skeletal muscle

H Amitani, A Asakawa, K Cheng, M Amitani, K Kaimoto... - PloS one, 2013 - journals.plos.org

... Insulin initiates its action by binding its specific cell-surface receptor, insulin receptor (IR), in the ... 9]. Ohsawa et al recently reported that hydrogen acts as a therapeutic anti-oxidant by selectively ... Currently, there are more than 100 reports related to antioxidant effects of H<sub>2</sub> ...

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### Berberine protects against ischemia/reperfusion injury after orthotopic liver transplantation via activating Sirt1/FoxO3α induced autophagy

Y Lin, M Sheng, Y Weng, R Xu, N Lu, H Du... - ... and Biophysical Research ..., 2017 - Elsevier

... been reported to have a multitude of biological effects including anti-diarrheal, anti-inflammatory, anti-hypertensive ... A morphometric analysis was conducted to further explore the effects of BBR on ... These data favored BBR's role of anti-oxidant and anti-apoptotic capacities in the ...

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### Protective effect of Holothurian intestine against indomethacin induced gastric mucosal damage in rats

X Li, X Qiao, C Zhang, H Gao, Q Niu, T Wu... - Journal of Ocean ..., 2017 - Springer

... GSH and SOD is important protective agents due to their anti-oxidant abilities in ... Effects of esomeprazole on glutathione levels and mitochondrial oxidative phosphorylation in ... Mechanisms, prevention and clinical implications of nonsteroidal anti-inflammatory drug entero- pathy ...

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### Role of oxidative stress in pancreatic inflammation

PS Leung, YC Chan - Antioxidants &amp; redox signaling, 2009 - online.liebertpub.com

... Trx can also exert antioxidant-independent anti-inflammatory actions (see IV (A) on the MAPK-activating pathway ... enzymes might exist in such a way that the activity of anti-oxidant proteins or ... and other environmental factors may be involved in normalizing the effects of GST ...



Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 33749

Manuscript Type: ORIGINAL ARTICLE

### Basic Study

Anti-oxidant and anti-inflammatory effects of hydrogen-rich water alleviate ethanol-induced fatty liver in mice

Lin CP *et al.* HRW in EtOH-induced fatty liver

Ching-Pin Lin, Wen-Chen Chuang, Fung-Jou Lu, Chih-Yen Chen

### Abstract

#### AIM

To investigate the effects of hydrogen-rich water (HRW) treatment on prevention of ethanol (EtOH)-induced early fatty liver in mice.

#### METHODS

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Hydrogen improves glycemic control in type1 diabetic ... - Amitani - 被引用次数: 22

Role of oxidative stress in pancreatic inflammation - Leung - 被引用次数: 196

## The Role of Oxidative Stress and Antioxidants in Liver Diseases

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4661801/> - 翻译此页

作者: S Li - 2015 - 被引用次数: 80 - 相关文章

2015年11月2日 - Keywords: oxidative stress, antioxidant, liver diseases, foods, medicinal plants ... The oxidative stress not only triggers hepatic damage by inducing irretrievable .... However, the activity/content of SOD and CAT after alcohol exposure are ... Nimesulide, nonsteroidal anti-inflammatory drug, could increase the ...

## Hydrogen-rich water alleviates ischemia-reperfusion injury in mice ...

[yxbwk.njournal.sdu.edu.cn/EN/abstract/abstract3180.shtml](http://yxbwk.njournal.sdu.edu.cn/EN/abstract/abstract3180.shtml) - 翻译此页

... protective effect of hydrogen-rich water on liver ischemia-reperfusion (I/R) in mice ... Six hours after reperfusion, the mice were sacrificed, and serum and liver samples ... oxidant stress, inflammatory response and apoptosis induced by reperfusion. Key words: Hydrogen rich water Nonalcoholic fatty liver Reperfusion injury ...

## [PDF] Hepatoprotective Effects of Chinese Medicinal Herbs: A Focus on An...

[www.mdpi.com/1422-0067/17/4/465/pdf](http://www.mdpi.com/1422-0067/17/4/465/pdf) ▾ 翻译此页

作者: P Lam - 2016 - 被引用次数: 11 - 相关文章

2016年3月29日 - Inflammation and cancer may be connected by the effect of the ... liver diseases; Chinese medicinal herbs; anti-inflammatory; anti-oxidative; .... It contains rich populations of various resident innate immune cells such as dendritic ..... via suppression of ethanol induced-increase of intestinal permeability [149].

## The Drinking Effect of Hydrogen Water on Atopic Dermatitis Induced



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by S Li - 2015 - Cited by 80 - Related articles

2 Nov 2015 - cause oxidative stress in liver and **effects** of antioxidants in the ... Keywords: oxidative stress; **antioxidant**; liver diseases; foods; ... The oxidative stress not only triggers hepatic damage by **inducing** ... For **fatty liver** disease, activation of Nrf2 could facilitate fatty acid ... as well as **anti-inflammatory action** [9].

### The Drinking Effect of Hydrogen Water on Atopic Dermatitis Induced ...

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by RMC Ignacio - 2013 - Cited by 4 - Related articles

20 Nov 2013 - **Mice** were administered with HW and purified water (PW) for 25 days. ... Atopic dermatitis (AD) is an allergic **inflammatory** skin disorder characterized by ... Active hydrogen acts as **antioxidant** and showed protection of ... In addition, the oral intake of **hydrogen-rich water** showed antiallergic **effect** in vivo [18].

### Hydrogen-rich water protects against acetaminophen-induced ...

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by JY Zhang - 2015 - Cited by 14 - Related articles

14 Apr 2015 - In the first experiment, **mice** were injected ip with a lethal dose of 750 ... Meanwhile, HRW could **reduce** the **inflammation** level (serum TNF- $\alpha$ : ... Core tip: Acetaminophen (APAP) -**induced liver** injury is a devastating and fatal disease. **Hydrogen** is a newly-developed **antioxidant** that has an obvious **effect** of ...

Missing: ethanol

### Hydrogen-rich water prevents progression of nonalcoholic ...

[onlinelibrary.wiley.com/doi/10.1002/hep.25782/full](http://onlinelibrary.wiley.com/doi/10.1002/hep.25782/full) ▼

by D Kawai - 2012 - Cited by 55 - Related articles

17 Jul 2012 - Molecular **hydrogen** is an effective **antioxidant** that reduces cytotoxic ... Nonalcoholic **fatty liver** disease (NAFLD) is a common and ... In this study, we evaluated the **effects** of HW in experimental steatohepatitis **induced** in **mice** fed a .... The HW and PGZ groups had less **inflammation** and ballooning of ...