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Manuscript Type: ORIGINAL ARTICLE

Basic Study

Irisin attenuates intestinal injury, oxidative and endoplasmic reticulum stress in mice with L-arginine-induced acute pancreatitis

Ren YF *et al.* Irisin reduces AP-associated intestinal injury.

Abstract

BACKGROUND

Acute pancreatitis (AP) is often associated with intestinal injury, which in turn

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A glance at the therapeutic potential of irisin against ...

<https://www.sciencedirect.com/science/article/pii/S1043661818300021>

Oxidative stress may play a critical role in initiation and progression of cancer [,]. Moreover, cancer initiation and progression have been associated with **oxidative stress** via an increase in DNA damage, cell proliferation, and genomic instability . To date, the anti-oxidant effect of **irisin** ...

Cited by: 13

Author: Hassan Askari, Sulail Fatima Rajani, Man...

Publish Year: 2018

The involvement of endoplasmic reticulum stress in bile ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3947968>

In this study, we investigated the contribution of bile acids to hepatocellular **injury** accompanied by **ER stress**, and the relationship between the hydrophobicity of these bile salts and the intensity of cytotoxicity **and ER stress** induced. The participation of intracellular Ca²⁺ and reactive oxygen species (ROS) was also investigated.

Cited by: 18

Author: Tetsuo Adachi, Tomoyuki Kaminaga, Hiro...

Publish Year: 2014

Alcohol Abuse, Endoplasmic Reticulum Stress and Pancreatitis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3211518>

Alcohol, **ER Stress** and the UPR. Long-term feeding of ethanol alone causes minimal pancreatic tissue **injury** in animal models [55,65]. To account for this lack of injurious effect, we hypothesized that ethanol feeding causes **ER stress** and that a physiologic adaptive UPR responds to the **ER stress** preventing pathobiologic **pancreatitis** responses such as inflammation and cell death.

Cited by: 71

Author: Stephen J. Pandol, Fred S. Gorelick, And...

Publish Year: 2010

Chloroquine attenuates paraquat-induced lung injury in ...

https://www.researchgate.net/publication/314174127_Chloroquine_attenuates_paraquat...

Chloroquine attenuates paraquat-induced lung injury in mice by inhibiting inflammation, oxidative stress, and fibrosis. Article in International Immunopharmacology 48:16-22 · February 2017 with 19 reads

Author: Haitao Shen, Na Wu, Yu Wang, Min Z...

Isoliquiritigenin Ameliorates Acute Pancreatitis in Mice ...



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Alcohol Abuse, Endoplasmic Reticulum Stress and Pancreatitis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3211518>

Both smoking and African-American ethnicity are associated with increased risk of alcoholic **pancreatitis**. In this review we describe how our recent studies demonstrate that ethanol feeding in rodents causes **oxidative stress** in the **endoplasmic reticulum** (ER) of the digestive enzyme synthesizing acinar cell of the exocrine pancreas.

Cited by: 72

Author: Stephen J. Pandol, Fred S. Gorelick, And...

Publish Year: 2010

Lung injury in acute pancreatitis: Mechanisms underlying ...

<https://www.sciencedirect.com/science/article/pii/S1424390311000172>

L-arginine-induced AP is a well-established model that **induces pancreatitis** with similar presentation to that in humans . L-arginine induces AP via numerous mechanisms including the conversion of L-arginine to **nitric oxide** by **nitric oxide synthase**, **causing oxidative stress** in the pancreas in addition to **endoplasmic reticulum stress**.

Cited by: 32

Author: Alison S.F. Elder, Gino T.P. Saccone, Da...

Publish Year: 2012

Early activation of endoplasmic reticulum stress is ...

<https://www.physiology.org/doi/full/10.1152/ajpgi.00471.2005>

Reduction of **oxidative stress** has previously been found to reduce the **severity of acute pancreatitis**, but the mechanisms that explain the role of **oxidative stress in acute pancreatitis** have not been clear . The current results suggest that **ER stress** may be a common consequence of **oxidative stress** leading to changes in gene expression and activation of the cellular processes that result in **acute pancreatitis**.

Cited by: 110

Author: Constanze H. Kubisch, Maria Dolors San...

Publish Year: 2006

Redox signaling in acute pancreatitis - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4360040>

Jan 27, 2015 · Oxidative stress and redox status are involved in the onset of **acute pancreatitis** and also in the development of the systemic inflammatory response, being **glutathione depletion**, **xanthine oxidase activation**, and **thiol oxidation** in proteins critical features of the disease in the **pancreas**.

Cited by: 28

Author: Salvador Pérez, Javier Pereda, Luis Saba...

Publish Year: 2015



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Alcohol Abuse, Endoplasmic Reticulum Stress and Pancreatitis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3211518>

Both smoking and African-American ethnicity are associated with increased risk of alcoholic **pancreatitis**. In this review we describe how our recent studies demonstrate that ethanol feeding in rodents causes **oxidative stress** in the **endoplasmic reticulum** (ER) of the digestive enzyme synthesizing acinar cell of the exocrine pancreas.

Cited by: 72

Author: Stephen J. Pandol, Fred S. Gorelick, Andrea...

Publish Year: 2010

Adaptive Unfolded Protein Response Attenuates Alcohol ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3057335>

Endoplasmic reticulum (ER) **stress** responses (collectively known the unfolded protein response, UPR) have important roles in several human disorders, but their contribution to alcoholic **pancreatitis** is not known. We investigated the role of X box-binding protein 1 (XBP1), an UPR regulator, in ...

Cited by: 122

Author: Aurelia Lugea, David Tischler, Janie Nguye...

Publish Year: 2011

Adaptive Unfolded Protein Response Attenuates Alcohol ...

<https://www.deepdyve.com/lp/elsevier/adaptive-unfolded-protein-response-attenuates...> ▼

Mar 01, 2011 · Read "Adaptive Unfolded Protein Response **Attenuates** Alcohol-Induced Pancreatic Damage, Gastroenterology" on DeepDyve, the largest online rental service for scholarly research with thousands of academic publications available at your fingertips.

Published in: Gastroenterology · 2011

Authors: Aurelia Lugea · David Tischler · Janie Nguyen · Jun Gong · Ilya Gukovsky · Samuel W Fr...

Affiliation: University of California Los Angeles · Ucla Medical Center · Yale University

About: CHOP · Glyceraldehyde 3-phosphate dehydrogenase · Glutathione · Real-time polymera...

Acute Pancreatitis: A Multifaceted Set of Organelle and ...

[https://www.gastrojournal.org/article/S0016-5085\(19\)30055-1/fulltext](https://www.gastrojournal.org/article/S0016-5085(19)30055-1/fulltext)

Acute pancreatitis is an inflammatory disorder of the exocrine pancreas associated with tissue **injury** and necrosis. The disease can be mild, involving only the pancreas, and resolve spontaneously within days or severe, with systemic inflammatory response syndrome—associated extrapancreatic organ failure and even death. Importantly, there are no therapeutic agents currently in use that can ...

Cited by: 1

Author: Aida Habtezion, Anna S. Gukovskaya, Step...

Publish Year: 2019