

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 37890

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Nonalcoholic steatohepatitis severity is defined by a failure in compensatory antioxidant capacity in the setting of mitochondrial dysfunction

Michelle L Boland, Stephanie Oldham, Brandon B Boland, Sarah Will, Jean-Martin Lapointe, Silvia Guionaud, Christopher J Rhodes, James L Trevaskis

Abstract

AIM

To comprehensively evaluate mitochondrial (dys)function in preclinical models of NASH.

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作者 : S Li - 2015 - 被引用次数 : 168 - [相关文章](#)

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NASH has been reported worldwide and is increasingly recognized as the leading cause for liver **dysfunction** and cirrhosis in the non-alcoholic, viral hepatitis If CPT1, and hence the oxidative **capacity** of the **mitochondria**, become overwhelmed, alternative oxidative pathways in other subcellular organelles process a ...

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2013年5月21日 - Strategies to lower oxidative stress in obesity include weight loss, physical **activity**, and **antioxidant**-rich diet. Circulating free fatty acids, together with insulin resistance, oxidative stress, **mitochondrial dysfunction**, endothelial dysfunction, and altered NO release, are key pathogenic factors [107].

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Similarly, the ultrasonographic **severity** of NAFLD is associated with increasing risks of T2D and, notably, **NASH** (more than simple steatosis) appears to be more Fatty pancreas develops in the



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CYP2E1 has the highest catalytic **activity** among the members of cytochrome P450 enzymes in metabolizing alcohol (ethanol). The role of CYP2E1 becomes particularly Potential role of CYP2E1 in Oxidative stress, **mitochondria dysfunction** and tissue injury in AFLD, **NAFLD** and DILI. CYP2E1 is a major source of cellular ...

Nonalcoholic fatty liver disease and aging: Epidemiology to ...

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作者: M Bertolotti - 2014 - 被引用次数: 73 - 相关文章

2014年10月21日 - Core tip: Nonalcoholic fatty liver disease (**NAFLD**) is a common disease in the elderly, in whom it follows a more **severe** course due to worse hepatic The relationship between IR

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2013年5月21日 - **Mitochondrial dysfunction**, ER stress, and hyperglycaemia seem to be involved in **NAFLD** development through oxidative stress. At the beginning of steatosis, carnitine palmitoyltransferase-1 (CPT1A) **activity** increases to compensate high fatty acid levels; at the same time, accelerated fatty acid catabolism ...

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Mitochondrial dysfunction in nonalcoholic steatohepatitis. - NCBI

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作者: G Serviddio - 2011 - 被引用次数: 64 - 相关文章

Expert Rev Gastroenterol Hepatol. 2011 Apr;5(2):233-44. doi: 10.1586/egh.11.11. **Mitochondrial dysfunction** in **nonalcoholic steatohepatitis**. Serviddio G(1), Bellanti F, Vendemiale G, Altomare E. Author information: (1)CURE (Centre for Liver Disease Research and Treatment), Department of Medical and Occupational ...

缺少字词: severity, defined, failure, compensatory, antioxidant, capacity, setting