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~~Mitochondria in Liver Disease (Oxidative Stress and ...~~

Abstract. Mitochondria are critical for respiration in all tissues; however, in liver, these organelles also accommodate high-capacity anaplerotic/cataplerotic pathways that are essential to gluconeogenesis and other biosynthetic activities.

During nonalcoholic fatty liver disease (NAFLD), mitochondria also produce ROS that damage hepatocytes, trigger inflammation, and contribute to insulin resistance.

~~Mitochondrial metabolism mediates oxidative stress and ...~~

During nonalcoholic fatty liver disease (NAFLD), mitochondria also produce ROS that damage hepatocytes, trigger inflammation,

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and contribute to insulin resistance....

And Disease

~~Mitochondrial metabolism mediates oxidative stress and ...~~

Abstract . Oxidative stress and hepatic mitochondria play a role in the pathogenesis of nonalcoholic fatty liver disease. The aim of the present study was to evaluate the role of hepatic mitochondrial dysfunction and oxidative stress in the pathogenesis of the disease.

~~Liver mitochondrial dysfunction and oxidative stress in ...~~

Assessment of mitochondrial function in metabolic dysfunction-associated fatty liver disease using obese mouse models Metabolic dysfunction-associated fatty liver disease (MAFLD) is characterized by deregulated hepatic lipid metabolism; however,

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the association between MAFLD development and mitochondrial dysfunction has yet to be confirmed.

~~Assessment of mitochondrial function in metabolic ...~~

These roles assign mitochondria a gateway function in protecting hepatocyte from injury since unbalanced mitochondrial function unequivocally affects cell survival by actively causing the onset and perpetuation of liver diseases.

Abnormal mitochondrial function is reported to be involved in a variety of liver diseases including drug-induced liver injury, alcoholic liver disease, non-alcoholic fatty liver disease, viral hepatitis, primary and secondary cholestasis, hemochromatosis, and Wilson ...

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Indexes of mitochondrial integrity, calcium loading capacity, and oxidative phosphorylation efficiency were unchanged between liver mitochondria from treated and control animals. In the animals tested, no evidence of degraded mitochondrial function due to nimesulide administration could be found.

~~Unaltered hepatic oxidative phosphorylation and ...~~

Conclusion: As mitochondria are a major source of ROS, the present review summarizes the role of mitochondrial oxidative stress in ASH and NASH and presents emerging data indicating the need to preserve mitochondrial antioxidant balance as

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a potential approach for the treatment of human fatty liver disease, which may pave the way for the design of future trials to test the therapeutic role of antioxidants in fatty liver disease.

~~Mitochondrial Oxidative Stress and Antioxidants Balance in ...~~

Abnormal mitochondrial function is reported to be involved in a variety of liver diseases including drug-induced liver injury, alcoholic liver disease, non-alcoholic fatty liver disease, viral...

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mitochondrial liver disease. Although liver congestion caused by cardiomyopathy was present, it was speculated that the mitochondria

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mutation in the liver caused oxidative stress and cellular damage, and induced the hepatic failure in addition to the damage from liver congestion. In terms of hearing loss, it has been generally specu-

~~Hepatic Failure and Enhanced Oxidative Stress in ...~~

Mitochondrial respiratory chain is the main subcellular source of reactive oxygen species (ROS), which may damage mitochondrial proteins, lipids and mitochondrial DNA.

Cardiolipin, a phospholipid located at the level of the inner mitochondrial membrane, plays an important role in several reactions and processes involved in mitochondrial bioenergetics as well as in mitochondrial dependent steps of apoptosis.

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~~Oxidative stress, cardiolipin and
mitochondrial ...~~

mitochondria) may be especially sensitive to oxidative stress, resulting in diminished energy production. Medications that reduce oxidative stress in mitochondria may ameliorate liver disease. KEY WORDS: ethanol metabolism; physiological stress; oxidation-reduction; pathogenesis; alcoholic liver disorder; glutathione;

~~OXIDATIVE STRESS AND ALCOHOLIC LIVER DISEASE~~

Excess amounts of oxidant agents may be released in liver mitochondria in various cases of liver diseases, including ALD. Clinical research has revealed that mitochondria that are chronically exposed to ethanol

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display increased production of ROS and undergo several irreversible changes.

~~Oxidative stress as a crucial factor in liver diseases~~

One suggested mechanism involves the oxidation of biomolecules by mitochondrial ROS which initiates a vicious cycle of exacerbated mitochondrial dysfunction and increased hepatocellular oxidative damage. This may ultimately pave the way for hepatic inflammation and liver failure.

~~Mitochondria in non-alcoholic fatty liver disease ...~~

Abstract. Aging induces liver morphological, structural, and functional changes that are consistent with increased levels of

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reactive oxygen species and oxidative damage. Aging not only increases oxidative-induced mitochondrial damage but also induces mitochondrial dysfunction in the liver. Therefore increased damage to the mitochondria may set the aged liver at increased risk of liver disease and poor prognosis.

~~Aging, oxidative stress, mitochondrial dysfunction, and ...~~

Redox state constitutes an important background of numerous liver disorders. The redox state participates in the course of inflammatory, metabolic and proliferative liver diseases. Reactive oxygen species (ROS) are primarily produced in the mitochondria and in the endoplasmic reticulum of hepatocyte ...

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Oxidative stress as a crucial factor in liver diseases

Mitochondria are the main energy source in hepatocytes and play a major role in extensive oxidative metabolism and normal function of the liver. This key role also assigns mitochondria a gateway function in the center of signaling pathways that mediate hepatocyte injury, because impaired mitochondrial functions affect cell survival and contribute to the onset and perpetuation of liver diseases.

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