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Name of Journal: *World Journal of Hepatology*

Manuscript NO: 53546

Manuscript Type: ORIGINAL ARTICLE

Basic Study

High omega arachidonic acid/docosahexaenoic acid ratio induces mitochondrial dysfunction and altered lipid metabolism in human hepatoma cells

Ghazali R *et al.* High omega-6:3 ratios induce lipotoxicity

Reem Ghazali, Kosha J Mehta, SW Annie Bligh, Ihab Tewfik, Dahn Clemens, Vinood B Patel

Abstract



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Authors: E Patterson · Rebecca Wall · Gerald F Fitzgerald · R P Ross · Catherine Stanton

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The fish-derived omega-3 fatty acids, eicosapentaenoic acid and docosahexaenoic acid, have been examined in clinical trials of Huntington disease patients. Drugs that combat the dysregulated lipid milieu in Huntington disease may help treat this perplexing and catastrophic genetic disease.

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Omega-3 supplementation alters mitochondrial membrane ...

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Mar 15, 2014 · Omega-3 supplementation, particularly with fish oils enriched with eicosapentaenoic acid (EPA; 20:5n-3) and DHA (docosahexanoic acid; 22:6n-3), results in significant incorporation of polyunsaturated fatty acids (PUFAs) into numerous membrane phospholipid species within whole skeletal muscle (Yamaoka et al.

Cited by: 123 Author: E. A. F. Herbst, S. Paglialunga, C. Gerlin...

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The Omega-3 Polyunsaturated Fatty Acid DHA Induces ...

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Docosahexaenoic acid: brain accretion and roles in ...

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With important effects on neuronal lipid composition, neurochemical signaling and cerebrovascular pathobiology, docosahexaenoic acid (DHA), a n-3 polyunsaturated fatty acid, may emerge as a neuroprotective agent against cerebrovascular disease. This paper examines pathways for DHA accretion in brain ...

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Tetradecylthiopropionic acid induces hepatic mitochondrial ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4743328>

The TTP-induced inhibition of mitochondrial fatty acid oxidation was not associated with increased hepatic oxidative stress or inflammation. Our data suggest a link between mitochondrial dysfunction and the methylation processes within the one-carbon metabolism in mice.

Cited by: 1 Author: Rolf Kristian Berge, Rolf Kristian Berge, B...

Publish Year: 2016

Altered Cholesterol and Fatty Acid Metabolism in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2926984>

The fish-derived omega-3 fatty acids, eicosapentaenoic acid and docosahexaenoic acid, have been examined in clinical trials of Huntington disease patients. Drugs that combat the dysregulated lipid milieu in Huntington disease may help treat this perplexing and catastrophic genetic disease.

Cited by: 98 Author: Robert C. Block, E. Ray Dorsey, Christop...

Publish Year: 2010

The Influence of Omega-3 Fatty Acids on Skeletal Muscle ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6742725>

Sep 06, 2019 · This shift in the omega-3: omega-6 fatty acid ratio in cell membranes has been shown to