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**Name of Journal:** *World Journal of Hepatology*

**Manuscript NO:** 53546

**Manuscript Type:** ORIGINAL ARTICLE

### *Basic Study*

**High omega arachidonic acid/docosaheaxaenoic 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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Published in: Journal of Nutrition and Metabolism · 2012

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## Omega-3 supplementation alters mitochondrial membrane ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3961091>

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.

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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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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.

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Author: Rolf Kristian Berge, Rolf Kristian Berge, B...

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## Altered Cholesterol and Fatty Acid Metabolism in ...

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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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Publish Year: 2010

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