

Special Issue

LC N-3 PUFAs, Vascular Inflammation, and Oxidative Stress

Message from the Guest Editor

Long chain omega-3 polyunsaturated fatty acids (LC n-3 PUFAs), eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) have anti-inflammatory and antioxidant activities. These effects are attributed in part to suppression of immune cell function. In the in vitro setting, LC n-3 PUFAs have been found to inhibit secretion of pro-inflammatory cytokines from human cultured macrophages after their exposure to a pro-inflammatory stimulus such as lipopolysaccharide. In animal models of cardiovascular disease, LC n-3 PUFAs suppressed activity of the pro-oxidant enzyme, nicotinamide adenine dinucleotide phosphate (NADPH) oxidase, to limit cellular formation of reactive oxygen species. However, the extent to which LC n-3 PUFAs attenuate the progression of chronic vascular disease by attenuating inflammation and oxidative stress is yet to be fully resolved. This Special Issue invites reviews, cell-based and animal studies, and clinical trials that provide improved understanding of the anti-inflammatory and antioxidant potential of LC n-3 PUFAs for attenuation of vascular disease.

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Deadline for manuscript submissions

closed (31 December 2020)



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/34288

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Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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