Special Issue

Effects of Dietary Lipids on Immunity and Inflammation

Message from the Guest Editor

Dietary lipids play a fundamental role in immune regulation and inflammation by modulating immune cell differentiation, signaling pathways, and the onset or progression of inflammatory diseases. Their impact extends to gut microbiota modulation, recovery from exercise-induced injuries, neuroinflammation control, and disease management.

Long-chain fatty acids integrate into cell membrane phospholipids, altering membrane rafts and influencing inflammatory responses. Additionally, variations in lipid composition across different tissues are associated with dermatological conditions and impaired wound healing, emphasizing the complexity of lipid-mediated effects on health. With multi-biological functions, impaired phospholipid supply, has been linked to the pathogenesis of various diseases.

Epidemiological studies underscore both the protective and detrimental effects of lipid intake on disease incidence, reinforcing the need for further research. We invite researchers to submit original studies exploring the mechanisms by which dietary lipids influence immunity and inflammation, paving the way for innovative therapeutic strategies.

Guest Editor

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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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