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Fatty Acid, Obesity and Metabolic Syndrome

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Message from the Guest Editor

The importance of fatty acids (FA) in multiple biological processes is widely recognized; however, alterations in its metabolism and the excessive consumption of saturated and trans-FA are involved in the origin of obesity and its related disorders, resulting in metabolic syndrome (MS). On the other hand, n-3 long-chain polyunsaturated FA (LCPUFA) and short-chain fatty acids have demonstrated beneficial effects in the control of components of MS; however, important issues must be addressed to understand the molecular basis behind the healthy or unhealthy effects of different types of FA. Moreover, more research must be done to elucidate the achievements of dietary strategies involving FA supplementation. The role of FA in the early stages of development, and maternal–fetal FA transfer, is of particular interest because of its implications in the development of MS in the offspring. Similarly, the increase in pediatric obesity requires deepening into the mechanism pathophysiology that conditions the development of MS, among them the role of FA.

We are pleased to invite you to submit articles in relation to these topics and others.



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Special Issue



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