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Digestion of Bioactive Main and Minor Food Lipids - Influential Factors and Bioaccessibility

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Deadline for manuscript submissions:

closed (26 November 2021)

Message from the Guest Editors

Investigations devoted to shedding light on the influence of factors like the degree of unsaturation and the initial oxidation status of the involved lipids, the presence of other food components showing antioxidant or pro-oxidant activity, and the different digestion models employed, on the final extent of oxidation are of great importance. Likewise, the study of oxylipin formation, including oxygenated aldehydes as well as their identification and quantification, are of relevance, since this permits one not only to evaluate the ultimate extent of oxidation but also to analyze the relationships that are likely to occur between oxidation, lipase activity, degree of lipolysis, and Maillard-type reactions. The influence of all the aforementioned factors on the bioaccessibility and bioavailability of major and minor lipid components and of oxidation-derived compounds are also issues with nutritional or toxicological repercussions closely related to oxidation processes during digestion.

This Special Issue is focused on studying food lipid oxidation and related reactions under digestion conditions, as well as the factors influencing their occurrence and potential impact on health.



mdpi.com/si/61417

Special Issue



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Message from the Editor-in-Chief

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