



The Metabolism and Health Benefits of Bioactive Compounds in Foods

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Message from the Guest Editors

There is growing evidence that plant-derived bioactives, including polyphenols, carotenoids and organosulfur compounds, may have several health benefits by reducing or delaying the incidence of non-communicable diseases such as cancer, cardiovascular disorders and diabetes. Those positive effects are dependent, in the first instance, on the bioavailability, absorption and metabolism of bioactives. In this context, the microbiota play an important role since they transform ingested bioactives that reach the colon into low-molecular-weight phenolic and aromatic metabolites which are absorbed into the circulatory system and, further, are subjected to phase II metabolism by mammalian enzymes, producing metabolites with potential biological activities.

This Special Issue welcomes manuscripts on i) the reliable phytochemical characterization of fruit- and vegetable-derived product extracts; ii) in vivo and in vitro studies on the absorption and metabolism of food bioactives using targeted and non-targeted approaches; iii) studies dealing with the potential benefits of the consumption of bioactives using cell-based experiments.





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Message from the Editor-in-Chief

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