

Special Issue

Food Bioactives: Chemical Challenges and Bio-Opportunities

Message from the Guest Editors

The role played by a healthy diet, in countering or slowing-down chronic and degenerative diseases, has increased the interest in food bioactives. In fact, these dietary substances, could display disease-preventing effects. In this context, polyphenols have gained attention thanks to their potential ability to halt or reverse oxidative stress-related diseases. Indeed, food could contain, beyond health-promoting compounds, toxicants, which are naturally occurring or process-induced dietary compounds with adverse effects on human health. Bioactives' presence and abundance are strictly related to their food source. Edible plant components largely contain beneficial secondary metabolites, but understanding them fully is still a challenge as complex biotic and abiotic interactions are involved in their biosynthesis. Analytical methods, could enhance our knowledge of food bioactives, whereas the deep investigation of their bioactivity and bioavailability could make them particularly useful.

This Special Issue aims to attract contributions on analytical challenges in food bioactives' chemistry and bioactivity, which form the basis of proper bio-opportunities.

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