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Plant Polyphenols and Human Health: Novel Findings for Future Therapeutic Developments

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Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

A plethora of beneficial properties, including antioxidant, anti-inflammatory, antimicrobial and antiproliferative, have been associated to polyphenol-enriched food and plant byproducts, thus suggesting a possible role of these compounds in the prevention or treatment of several pathologies, such as neurodegenerative diseases, metabolic syndrome, diabetes, and cancer. Recent evidence has also highlighted the ability of some phenolics to boost antioxidant endogenous defenses, thus favoring health maintenance and infectious resilience.

Consequently, polyphenols appear to be interesting candidates for both pharmaceutical and nutraceutical applications. However, some pharmacokinetic issues, including reduced intestinal absorption and bioavailability, and rapid metabolic modifications, should be assessed to fully exploit their remarkable properties.

This Special Issue aims at collecting original articles and review papers evaluating the biological activities of plant polyphenols and phenolic-based plant byproducts, the mechanisms involved, and their clinical relevance review articles.

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Guest Editors



mdpi.com/si/74068

Special Issue



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Journal Rank: JCR - Q1 (*Nutrition & Dietetics*) / CiteScore - Q1 (*Nutrition and Dietetics*)

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