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Interaction between Polyphenols and Gut Microbiota in Cancer

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Deadline for manuscript submissions:

25 July 2024

Message from the Guest Editor

Dietary polyphenols are natural compounds present in plants with important biological functions. These include their antioxidant, antifungal and antibacterial properties. In vitro studies have also demonstrated their anti-inflammatory and antiproliferative effects. On the other hand, the microbiota, mainly digestive, is receiving a great deal of attention since its metabolites seem to influence an increasing number of physiological processes. This could be of vital interest for the treatment of highly prevalent pathologies such as cancer. In fact, the direct relationship between polyphenol metabolism and the digestive microbiota has been demonstrated, and the relationship between inflammatory phenomena and intestinal dysbiosis is also known. However, in vivo studies are more scarce. In any case, the variety of existing food polyphenols and pre/probiotics is very large, and more research is needed on the relationship between them and tumor transformation to find effective treatments that take advantage of their properties.



mdpi.com/si/195361

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

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