

Special Issue

The Effect of Phenolic Compounds in Human Diseases

Message from the Guest Editor

Polyphenols are a class of natural compounds extensively occurring in the vegetable kingdom and generally consumed in high quantities by human individuals through diet. Epidemiological evidence indicates that a high dietary intake of polyphenols is correlated with a decreased risk of several types of pathologies including cardiovascular disease (CVD), certain tumoral forms, and neurodegeneration. Although the interaction between polyphenols and cells has recently been better elucidated, there is still much work to do before the specific cellular targets and mechanisms of action can be ascertained. Along with this, a deeper understanding of the bioaccessibility and bioavailability of polyphenols in vitro and in vivo have to be determined. While various lines of evidence via biomarker assessments and the use of pharmacological tools in vivo (i.e., specific enzyme inhibitors, receptor agonists or antagonists) have indicated several potential mechanisms of action, a comprehensive proof and conclusive understanding has yet to be established.

Guest Editor

Prof. Dr. Gian Carlo Tenore

Department of Pharmacy, University of Naples "Federico II", Via Domenico Montesano, 49, 80131 Napoli, Italy

Deadline for manuscript submissions

closed (20 April 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/123545

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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