

Special Issue on **Natural and Bioinspired Phenolic Compounds for the Prevention of Oxidative Stress-Related Diseases**

CALL FOR PAPERS

Phenolic compounds have gained much attention because of their beneficial effects to human health in the prevention of cancer and cardiovascular diseases. Most of the biological properties of natural phenols have been ascribed to their potent antioxidant and scavenging properties against reactive oxygen species generated in settings of oxidative stress, which are responsible for the onset of several inflammatory and degenerative diseases. Because of the growing demand for cheap, efficient, and nontoxic antioxidants on the part of food and pharmaceutical industries, considerable efforts are currently devoted also to develop practical manipulation strategies for potentiating and tailoring the antioxidant and pharmacological activities of natural scaffolds. Evaluation of the actual bioavailability of phenolic compounds based on data concerning their absorption, metabolism, tissue, and organ distribution represents another crucial point to establish their effects on the human body. In addition, the understanding of the metabolic fate of phenols due to their interaction with the gut microbiota is an issue to be solved in the next years.

In this special issue, we invite investigators to contribute with original research articles relating to novel effects, mechanisms of action and bioavailability data of natural phenolics, and novel synthetic derivatives with improved antioxidant activity, with the aim of developing innovative prevention strategies for oxidative-stress related diseases. Review articles describing the current state of the art are also welcomed.

Potential topics include but are not limited to the following:

- ▶ Antioxidant activity of novel natural phenolic compounds (pure or natural extracts) in chemical and/or cellular and/or *in vivo* assays
- ▶ Reactivity of phenolic compounds with oxidizing systems of physiological relevance
- ▶ Synthesis of novel derivatives of phenolic compounds and characterization of their antioxidant activity
- ▶ Bioavailability of natural and bioinspired phenolic compounds in *in vitro* or *in vivo* studies

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/omcl/nbpc/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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