

Special Issue on **Role of Antioxidants in the Protection from Aging-Related Diseases**

CALL FOR PAPERS

In recent years, oxidative stress has been considered an important factor in the pathogenesis and development of lifestyle-related diseases. In particular, the increase in reactive oxygen species (ROS) has been related to the onset and progression of aging. ROS can be generated by normal metabolic activity as well as lifestyle factors. Although many epidemiological studies have shown that the adoption of a healthy diet is mandatory, the molecular mechanisms by which nutrients exert their effects on oxidation remain poorly understood. Concurrently, oxidation damage can also depend on inherited or acquired defects in enzymes involved in the redox-mediated signaling pathways. The resulting redox-unbalance leads to increased susceptibility towards oxidative aging-related pathologies. For these reasons, the investigation of the role of cellular antioxidant scavenger enzymes, active towards oxidative stress, is gaining much attention.

In this special issue, we invite the researchers to contribute reviews, as well as original research articles, to shed light on the molecular mechanisms involved in fighting aging-related diseases by antioxidant molecules which promote healthy aging and counteract oxidative stress.

Potential topics include but are not limited to the following:

- Evaluation of natural compounds on the molecular mechanisms involved in redox modulation and/or inflammation
- Cellular antioxidant scavenger enzymes active towards oxidative stress
- Role of natural antioxidants in the prevention of age-related diseases
- Investigation of the molecular pathways involved in cell senescence and in the cellular oxidative balance

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

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

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