



Redox-Inflammatory State and Immune Function. Role of Antioxidant Compounds

Guest Editor:

Prof. Mónica De la Fuente

Department of Genetics,
Physiology and Microbiology
(Animal Physiology Unit), School
of Biology, Complutense
University of Madrid (UCM), 28040
Madrid, Spain

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Message from the Guest Editor

The redox state, which is associated with an inflammatory situation, is the base of health or disease depending on its characteristics. Moreover, oxidative-inflammatory stress is the principal cause of the aging process. Thus, antioxidants and anti-inflammatory compounds are good or bad depending on the circumstances. In this context, the function of the immune system, which is the best marker of health, is a perfect example of this controversy. In fact, immune cells need to produce oxidation and inflammation to carry out their defensive functions against infections and cancers. The use of antioxidants, which have shown important benefits for immunity and health should be controlled, especially the amounts given and the time of life at which they are used. Thus, depending on these factors, antioxidants can be useful or harmful for health or be ineffective. This Special Issue invites articles about any aspect of oxidation, inflammation, immunity, aging and antioxidant effects, across a range of experimental approaches, including molecular, pre-clinical, and translational studies.





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Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
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