



Biomarkers of Oxidative Stress in Acute and Chronic Diseases

Guest Editors:

Prof. Luca Massaccesi

Department of Biomedical Sciences for Health, Università degli Studi di Milano, Via Mangiagalli, 31 20133 Milan, Italy

Dr. Carmela Rita Balistreri

Cellular, Molecular and Clinical Pathological Laboratory, Department of Biomedicine, Neuroscience and Advanced Diagnostics (Bi.N.D.), University of Palermo, 90134 Palermo, Italy

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Message from the Guest Editors

Oxidative stress is considered to be an important player in the onset and progression of various diseases. The loss of physiological balance between pro-oxidant factors and antioxidant defenses, fundamental for the maintenance of low levels of free radicals, leads to excessive production of reactive oxygen species (ROS) and reactive nitrogen species (RNS), which are toxic for cells, leading to the destruction of cellular homeostasis with a severe relapse reaching the systemic level. The growing understanding of redox dynamics, of the biological mechanisms underlying diseases, and the need to have increasingly early markers in order to optimize the diagnostic process, has led to the identification of new specific and sensitive instruments, and as valuable aids in the evaluation of the effectiveness of treatments.

We invite investigators to submit articles in order to discuss the pivotal role of oxidative stress biomarkers in different acute and chronic diseases. Contributions describing recent developments in the identification of novel biomarkers are particularly welcome.





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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, Grosspeteranlage 5
4052 Basel, Switzerland

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