



Oxidative stress and Applied Biology

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Message from the Guest Editor

For a long time, oxidative stress has been called "harmful". Recently, the importance of ROS as second messengers in the physiology of cells has been better understood.

This has led to an evolution of the initial concept of "oxidative stress" or damage of the cellular structure to include the subsequent stress response. This new concept has made it possible to exploit "oxidative stress" as a therapeutic approach to treat diseases such as cancer, resulting in a certain degree of clinical success. In this Special Issue, we invite researchers to provide original research articles and review articles that report results in the field of oxidative stress that are negative and/or positive for human health, taking different aspects of applied biology research (environmental and human biology and health sciences) into consideration, with particular attention to the role of ROS in the basic mechanisms involved in processes of expression, duplication, and transmission of genetic information, development, cell proliferation as well as differentiation and cellular interaction.





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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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