

Special Issue

Reactive Oxygen Species in Different Biological Processes

Message from the Guest Editor

Reactive oxygen species (ROS) have a determining role in all biological processes of any living organisms, from prokaryotes to plants and human beings. In physiological concentrations, ROS are essential to maintain redox homeostasis in the cell, although their enhancement causes oxidative stress that is extremely dangerous for the cells. Indeed, oxidative stress damage of cellular macromolecules leads to apoptotic or necrotic cell death. Oxidative stress has also been indirectly correlated to many adverse processes. For this Special Issue, we invite you to submit original articles describing your latest research data or review papers highlighting the recent findings in the field. This Issue will include both *in vitro* and *in vivo* studies clarifying the fundamental role of ROS and their modulation in cell signaling, cell metabolism, epigenetic regulation, development, differentiation, microbiota modulation, diseases, or in other biological process in any living organism. It will also include studies reporting antioxidant strategies and molecules developed by organisms, and in particular plants, to counteract oxidative stress.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2022)



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About the Journal

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.

Editor-in-Chief

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