

Special Issue

Environmental Stress and Antioxidant Defences

Message from the Guest Editors

In some parts of our planet, resident organisms are exposed to xenobiotics of both natural and anthropogenic origin. Environmental contaminants are known to induce molecular, biochemical, and morphological changes in these organisms. One of these modifications concerns the formation of reactive oxygen species (ROS) by different basic mechanisms, but also complex interactions in the presence of chemical mixtures. In cells, ROS can induce antioxidant responses at various levels, including transcriptional, transcriptional, protein, and catalytic functions that are largely unexplored. This Special Issue aims to examine some environmental aspects of oxidative stress risk and antioxidant scavenging, such as the molecular evolution of antioxidant proteins in organisms evolved in environmental stress conditions, physiological responses and pathological effects induced by pollutants, and the ecotoxicological application of antioxidant molecules as biomarkers of environmental pollution. Both field and laboratory studies will be considered, targeting organisms from all kingdoms.

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Deadline for manuscript submissions

closed (10 March 2022)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



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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.

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