Special Issue

The Reactive Species Interactome in Redox Regulation Processes

Message from the Guest Editor

The intricate web of interactions between reactive species, collectively known as the reactive species interactome (RSI), plays a fundamental role in the redox regulation of biological processes. Reactive species, including reactive oxygen species (ROS), reactive sulphur species (RSS), and reactive nitrogen species (RNS), are no longer viewed solely as damaging agents but rather as crucial signalling molecules that participate in diverse cellular pathways. This Special Issue in Antioxidants aims to explore the peculiar properties and significance of the RSI and shed light on the importance of the reactive species interactome in governing redox regulation and its impact on various biological processes. We hope to gain a deeper understanding of how redox signalling influences cellular homeostasis, signalling pathways, disease development, and metabolic processes. The articles presented in this issue will emphasize the biological significance of the reactive species interactome and pave the way for future research endeavours aimed at harnessing its potential for therapeutic interventions and disease prevention.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2024)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/176032

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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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