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Cellular ROS and Antioxidants: Physiological and Pathological Role

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

In the past, reactive oxygen species (ROS) were considered the side products of cellular metabolism that could induce oxidative damage to biomolecules, leading to cellular dysfunction and death. However, studies during the last 30 years have provided strong evidence that ROS play an important role in intracellular signaling and regulate a number of important cellular functions. Currently, it is commonly accepted that mitochondrial ROS play a predominant role in orchestrating ROS generated from other sources and regulating the ROS-dependent intracellular metabolism.

This Special Issue invites submissions with a balanced consideration of the beneficial and deleterious impact of ROS, the identification of conditions (ROS types, sources, threshold concentrations) that switch between the beneficial and deleterious actions of ROS, considering the advantages and disadvantages of antioxidant therapy. The Special Issue invites original and review articles for publication.

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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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