Special Issue

Hydrogen Peroxide Signaling in Physiology and Pathology

Message from the Guest Editors

Recent findings have shown that ROS can also contribute to bona fide physiological processes, leading to a new paradigm in reversible posttranslational modifications involved in signal transduction, defined as oxidative eustress. Amongst ROS, hydrogen peroxide (H2O2) best fits the properties of a signalling molecule and is recognized as the major ROS in the oxidative regulation of physiological activity. H2O2 is mainly produced by NAPDH oxidases and the mitochondrial electron transport chain. This generation is controlled by growth factors, chemokines and physical stress, among other factors. A Special Issue of Antioxidants will be devoted to these topics. We invite you to submit your latest research findings or a review article to this Special Issue. We welcome submissions concerning the analysis of H2O2 dynamics from the subcellular to organism level, as well as the identification of molecular targets or H2O2-regulated processes in animals or plants in physiological or pathological contexts. We believe that this Special Issue will help to highlight the most recent advances in all the aspects of H2O2 signalling.

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Deadline for manuscript submissions

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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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