



NADPH Oxidase and Redox Signaling

Guest Editor:

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Message from the Guest Editor

Traditionally reactive oxygen species (ROS) have been considered as detrimental for cell biology due to their capacity to oxidize proteins, lipids or nucleic acids. However, during the last two decades, we have become aware of the physiological importance of a moderate production of ROS. The concept of ROS as second messengers is currently widely accepted. In order to fully understand the importance of ROS for the control of cellular signaling, we would need to identify the signaling proteins regulated by ROS and also to understand how the production of ROS is regulated in physiological conditions. NADPH oxidases are a family of enzymes, present in all eukaryotic cells. Their only known function is the production of ROS; moreover, their activity can be regulated. In other words, this family of enzymes fulfils all the requirements for being one of the main sources of ROS involved in redox signaling. This Special Issue aims to collect papers dealing with the role of NADPH oxidases in the regulation of cell function and physiology. Studies addressing signaling pathways or signaling proteins specifically regulated by NADPH oxidases will be also welcomed.





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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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