Special Issue

Redox Regulation in Inflammation and Disease

Message from the Guest Editor

Specific ROS such as hydrogen peroxide, hydrogen sulfide, and nitric oxide are essential for physiological processes including inflammatory signaling. Redox regulation of membrane proteins, enzymes, and transcription factors such as NF□B is crucial for the activation and migration of immune cells, the production and release of immune mediators, and cell communication. Interestingly, extracellular redox proteins, low-molecular-weight thiols, and thiol switches also affect signal transduction and cell communication. Redox changes can be analyzed in body fluids and isolated immune cell populations without using invasive and expensive techniques, maintaining their potential for developing new preventive and diagnostic tools and innovative treatments. For this Special Issue, we invite researchers to provide original research articles that report results combining the fields of redox regulation, inflammatory signaling, and translational immunology, highlighting which specific reactive species and/or thiol switches are involved.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2022)

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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.

Editor-in-Chief

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