



Redox Signaling at the Crossroads of Immunity, Inflammation, Infectious Disease, and Cancer

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Message from the Guest Editors

Reactive oxygen species (ROS) manifest effects that encompass both beneficial physiological functions as well as damaging alterations of cellular components. Indeed, normal functioning of the immune system, both innate and adaptive mechanisms, involve acute ROS production and intricately regulated redox signaling. A dysfunctional immune system resulting from oxidative stress and chronic inflammation are now known to be responsible for the initiation, progression, and therapeutic resistance of numerous diseases. However, despite decades of research in this field, no effective therapy is currently approved for regulating altered redox signaling at the crossroads of immunity, inflammation, infectious diseases, and cancer. This Special Issue of *Antioxidants* will focus on the mechanisms linked to the regulation of pro- and antioxidants in both normal and pathological circumstances. In addition, this Special Issue will address druggable targets that show promise in clinical settings. Therefore, basic research, clinical case reports, as well as review articles will be accepted.





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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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