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Oxidative Stress in Microbial Infections

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Deadline for manuscript submissions:
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Message from the Guest Editors

In microorganisms, redox metabolism is generally based on specific enzymatic processes, affecting their morphological and functional integrity. The counteraction of these pathways could represent a valuable therapeutic strategy to fight microbial infections. It is hardly surprising that the search for innovative antimicrobial agents, endowed with new mechanisms of action, led to the design of modulators of microbial redox balance. In this way, redox-balance-targeting antimicrobials act directly or indirectly on oxidative stress in a complex interplay.

This Special Issue aims to gather studies addressing the subcellular, cellular, and molecular bases of the redox status, especially if associated with infectious diseases. It will shed light on the microbial redox system and its role in the pathogenesis of infections, along with host–pathogen interactions. It will also focus on the discovery and development of new antimicrobial agents able to modulate the oxidant–antioxidant equilibrium in both pathogens and hosts.

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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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