

Special Issue

Redox Biology in Microorganisms

Message from the Guest Editors

It is becoming clear that the maintenance of the redox homeostasis is crucial for the survival of any organism. Bacteria are continuously exposed to oxidative stress in the environment. In response, these microorganisms have acquired a plethora of detoxification strategies, including the production of antioxidant molecules and enzymes that rescue proteins and DNA from irreversible oxidation. On the other hand, these molecular resources are also used by many bacterial intracellular pathogens to survive the oxidative burst generated by professional phagocytes during phagocytosis. Therefore, we invite you to submit your latest research findings or a review article to this Special Issue, which should be focused on the redox biology of bacteria. This research work can be oriented towards the oxidative stress encountered by bacteria in the environment and its potential applications in bioremediation, the redox biology of intracellular pathogens, the development of ROS-generating antimicrobials, the study of redox signalling molecules in bacteria, and any other aspect of the redox biology of microorganisms. We look forward to your contribution.

Guest Editors

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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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