Special Issue

Oxidative Stress Response in Bacteria

Message from the Guest Editor

Under various environmental stress conditions, oxidative damage occurs when organisms encounter increasing reactive oxygen species levels. Reactive oxygen species such as hydrogen peroxide (H2O2) and hydroxyl radical (OH·) can cause DNA mutations, enzyme inactivation, and membrane damage. Interestingly, bacteria appear to have diverse defense mechanisms evolved to remove the ROS and to protect the cellular biomolecules against oxidative stress. Recently, multi-omics investigation has enabled the discovery of a new molecular mechanism of the defense system, which expands our knowledge to understand complex oxidative stress responses in bacteria.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2023)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/165690

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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.

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