Special Issue

Redox-Based Regulation in Prokaryotes

Message from the Guest Editor

Redox sensing and control comprise various fundamental reactions that form part of the spectrum of cell phenomena. In particular, prokaryotes are extremely sensitive to environmental changes which are detected through the transfer, recognition, and signal transduction of extracellular substances and physicochemical factors. The resulting intracellular redox balance then has important roles, acting as a limiting factor and with global action criteria in cellular components such as molecules, proteins, and genome and membrane compartments. Thus, this subject provides us with a better understanding of cellular regulation in bacteria and archaea. We welcome submissions concerning all manipulations of redox control in bacteria and archaea, biosynthesis of antioxidants, enzymatic activity under redox balance, transcriptional regulation, and certain physiological phenomena occurring through redox control in prokaryotes.

Guest Editor

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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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