

Special Issue

A Lesson from Microorganisms: How to Counteract Oxidative Stress

Message from the Guest Editors

Antioxidant systems exist in cells to protect them against reactive oxygen species (ROS) that damage major biomolecules. Microorganisms to fight ROS are equipped with powerful enzymatic (e.g., superoxide dismutase (SOD), catalase, and peroxidase) and non-enzymatic (e.g., glutathione) antioxidants to prevent oxidative damage to cells. The microbial world offers great antioxidant potential because of the enormous diversity of microorganisms that colonize different environments ranging from humans to extreme ecological niches. In addition, microbes offer a source of interest for innovative biotechnologies in this field. This Special Issue focuses on the molecular strategies adopted by microorganisms to combat oxidative stress and the possible biotechnological application. All researchers working in the field are cordially invited to contribute original research articles or reviews to this Special Issue.

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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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