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A Lesson from Microorganisms: How to Counteract Oxidative Stress

Guest Editors:

Dr. Danila Limauro
Department of Biology, University of Naples Federico II, Naples, Italy

Dr. Emilia Pedone
Biostructures and Bioimaging of C.N.R, V. Mezzocannone 16, 80134 Naples, Italy

Deadline for manuscript submissions:
closed (15 October 2023)

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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Editor-in-Chief

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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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Contact Us

Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/antioxidants
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𝕏@antioxidants_OA