

Special Issue

Oxidative Stress in Various Forms and Efficient Antioxidant Pathways in Prokaryotic and Eukaryotic Cells

Message from the Guest Editor

Dear colleagues, You are invited to submit your original work and reviews for a new issue of *Antioxidants* (MDPI), titled "Oxidative stress in various forms and efficient antioxidant pathways in prokaryotic and eukaryotic cells". The focus of this broadly formulated issue is to present an up-to-date overview of the advances in the discovery of various kinds of reactive species causing oxidative stress. In addition reactive oxygen species, which are already quite well known as "two-faced" molecules that also have a signaling function, attention must also be paid to reactive nitrogen and reactive sulphur species that are much less investigated but may play important roles in various signaling pathways. One principal aspect is doubtless the mechanism of cellular defence against various forms of oxidative stress. From this perspective, a direct comparison between the behaviour of prokaryotic and eukaryotic cells can give important insight into future directions of exciting molecular research. Furthermore, important updates on the main groups of antioxidant enzymes are welcomed in this collection.

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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