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Oxidative Stress in Human Diseases: Focus on Redox Status Assessment in Biological Fluids, Tissues and Cells

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Deadline for manuscript submissions:
closed (30 April 2021)

Message from the Guest Editors

Reactive oxygen species are involved in a multitude of physiological mechanisms. However, despite the development of a complex antioxidant system, their excessive level, which is responsible for the onset of oxidative stress, may contribute to the initiation and progression of tissue/organ injury. The assessment of redox status in tissues/organs and body fluids remains an open challenge due to a lack of validated oxidative stress biomarkers. Indeed, a very large number of molecules with different reactivities exist and the evaluation of a single redox marker gives limited information. Analytical issues regarding the validation of oxidative stress biomarkers have recently received substantial attention due to the increasing interest in investigating their potential clinical applications.

On these bases, we invite you to submit your latest research findings or review articles to this Special Issue, which is focused on the assessment of redox status in physiologic and pathologic human conditions. Both in vitro and in vivo studies relating to these topics will be suitable for the current issue. We look forward to your contribution.

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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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