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Oxidative Stress Markers and Endothelial Dysfunction in Pre- and Perinatal Period

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Message from the Guest Editors

Reactive oxygen species (ROS) are generated as normal products of cellular metabolism and they have a regulatory role in several basic processes. When their excessive generation exceeds the capacity of antioxidant defense mechanisms, oxidative stress (OS) ensues and ROS react with essential cellular elements (lipids, proteins, and DNA) causing cellular dysfunction, damage, and apoptosis. During the perinatal period, the antioxidant defense is markedly reduced and the fetus and neonates are at particular risk of adverse effects of ROS. The Special Issue invites research groups to contribute by presenting different aspects of this Special Issue, such as Studies on the exposure to drug administration; the implementation of new, sensitive, early biomarkers of ROS-induced tissue injury; and organ-specific innovative preventive/therapeutic approaches may be of theoretical and clinical significance.



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Special Issue



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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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