Special Issue

Hormones and Oxidative Stress

Message from the Guest Editor

An imbalance between the production of ROS and the capability of the antioxidant defense system results in the induction of oxidative stress, which is involved in different pathological events. The regulation of cellular antioxidant defenses may be influenced by different factors, such as age, organ specificity, and hormonal state. Some hormones, such as melatonin, insulin, and estrogen, act as antioxidants and/or exert an impact on the various enzymatic and non-enzymatic components of the defense system, while others, including thyroid hormones, corticosteroids, and catecholamines, promote the generation of ROS and oxidative stress. Moreover, any alterations in the hormonal milieu can exhibit significant effects on ROS production and oxidative stress, possibly leading to pathological conditions. For this Special Issue, we aim to better understanding the complex relationship between hormonal conditions, redox states, and oxidative stress in living systems in both physiological and pathological conditions.

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.

Editor-in-Chief

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