Special Issue

Antioxidants and Oxidative Stress in the Development of Diseases and Therapy

Message from the Guest Editors

Oxidative stress induces cell proliferation, cellular senescence, and/or cell death through multiple mechanisms, including mitochondrial dysfunction, mitophagy impairment, apoptosis, protein modification, non-coding RNA dysregulation, and other epigenetic regulations. In the past few years, translational research has been extensively carried to elucidate the molecular mechanisms of oxidative stress and to find new chemicals or naturally derived compounds and antioxidants for the treatment of these oxidative-stress-related diseases. This Special Issue will focus on the molecular mechanisms of oxidative stress in causing major human diseases, as well as the therapeutic and nutraceutical effects and molecular mechanisms of antioxidants, both naturally and synthetically derived, on oxidative-stress-induced diseases. It is our hope that this Special Issue will review molecular mechanisms of oxidative stress and redox signaling in disease development, and that it will advance our understanding of translational and clinical studies using antioxidants to foster new strategies for disease prevention.

Guest Editors

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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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