Special Issue

Antioxidants and Oxidative Stress in Active, Diseased, and Sedentary Individuals

Message from the Guest Editors

It is well established that basal levels of reactive oxygen species (ROS) and reactive nitrogen species (RNS) are essential for cell survival. It is also well known that severe oxidative stress leads to oxidative damage and cell death. Importantly, a moderate level of oxidative stress induced by a variety of stressors, such as exercise, or a modulation and inhibition of ROS/RNS by dietary ingestion of various fruits and vegetables can yield significant beneficial effects on adaptive cellular responses to oxidative challenges. This Special Issue will bring together current research concerning the ability of naturally occurring plant antioxidants and bioactive compounds, such as anthocyanins and bioflavonoids, to combat the adverse consequences of exercise, inactivity, disease, and the aging process. This research can include both in vitro and in vivo studies relating to any of the following topics: structure/function of plant bioactives; regulation of endogenous antioxidant responses in vivo by bioactives; and the role of plant bioactives in signaling, metabolism, cell cycle, gene regulation, cellular stress, and disease.

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Deadline for manuscript submissions

closed (30 November 2019)

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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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