Special Issue

Alcohol-Induced Oxidative Stress in Health and Disease and the Role of Antioxidants

Message from the Guest Editors

The mechanism underlying the neurotoxicity of ethanol is not yet clearly known; however, it is believed that it is mainly due to the production of Reactive Oxygen Species during its metabolism and to the pro-inflammatory action, especially in children exposed to alcohol during pregnancy and or lactation. Several studies have shown that alcohol is able to alter the production of nerve growth factor and brain-derived neurotrophic factor. These neurotrophins play a crucial role in the survival, growth, and differentiation of neuronal cells and are involved in cognitive, learning, and memory processes. In alcohol abuse, many therapeutic interventions have been proposed based on various classes of nutraceuticals / phytochemicals with antioxidant functions. The use of therapies to reduce oxidative stress could contain the damage caused by alcohol. Recent studies have shown that the administration of a solution enriched in olive polyphenols or resveratrol may prevent the oxidative damage induced by ethanol. However, the literature supporting the observation that dietary antioxidant supplementation can improve the cognitive decline that occurs with age is not entirely clear.

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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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