



Antioxidants in the Prevention and Treatment of Chronic Diseases

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Message from the Guest Editor

Research in previous decades has established a strong association between the generation of free radicals and the onset of numerous diseases. Although the production of free radicals is a naturally occurring process, many factors can play pivotal roles in their increased production. This can lead to a state of oxidative stress, described as an imbalance between free radicals and antioxidants in the body, when it is associated with the pathogenesis of cardiovascular diseases, cancer, neurodegenerative diseases, and other chronic and age-related diseases. Antioxidants hinder oxidative processes and thereby have the ability to delay or prevent oxidative stress. It is well known that fruits and vegetables are rich in antioxidant-rich compounds such as phytochemicals, including carotenoids, flavonoids and others, vitamin E, vitamin C, selenium, etc. Moreover, omega-3 and other fatty acids also play a prophylactic role in many diseases. This Special Issue is focused on the new generation of nutraceutical products, their related mechanisms of action, and the contribution of antioxidants to both the prevention and treatment of chronic diseases.





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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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