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Antioxidant Therapy for Cardiovascular Diseases

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Message from the Guest Editors

It is widely agreed that ROS and oxidative damage are pathological components of cardiovascular diseases (CVDs). For decades, considerable research has focused on approaches to eliminate excess free radicals generated in the body. Yet, experimental and clinical studies focused on the use of antioxidant therapy to mitigate myocardial damage have yielded mixed results. Moreover, decreasing the systemic level of ROS by using antioxidant therapy may in fact be detrimental in certain instances. Homeostatic mechanisms that maintain the balance between ROS generation and antioxidant production and consumption in CVD require fine tuning for optimal therapeutic outcomes. Our objectives in this Special Issue of Antioxidants are twofold: 1) to re-evaluate the utility and value of antioxidants in the prevention and treatment of CVD; 2) to highlight the expanding efficacy of naturally occurring antioxidants and synthetic antioxidants toward improvement of the functional and structural changes of CVD.

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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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