Special Issue

Cardiomyopathy, Inflammation and Oxidative Stress

Message from the Guest Editor

The pathophysiological mechanisms in cardiomyopathies and the development of heart failure are closely associated with microvascular endothelial inflammation and oxidative stress. It exists both in heart failure with reduced (HFrEF) and preserved ejection fraction (HFpEF). The multiple co-morbidities result in increased reactive oxygen species (ROS) production and reduced nitric oxide (NO) availability leading to endothelial and microvascular dysfunction.

HFpEF and HFrEF are both associated with abnormal energy metabolism and the increased production of ROS, affecting fatty acid (FA) beta-oxidation. The shift in energy metabolism is a hallmark of heart failure and varies with the progress of the disease.

The role of oxidative stress in the development of cardiomyopathies and energy metabolism in the myocardium is intriguing and may serve as future treatment target. We call colleagues to contribute to this Special Issue, with research findings or literature reviews, where the scope is to explore the role of oxidative stress in cardiomyopathies and the development of cardiac dysfunction.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2024)

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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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