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Oxidative Stress in Cardiovascular Diseases

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Message from the Guest Editor

Metabolic disorders such as obesity, metabolic syndrome, and diabetes mellitus are major cardiovascular risk factors accompanied by increased risk of mortality, and are often associated with oxidative stress. Recent evidence indicates that oxidative stress may be the mechanistic link between obesity, diabetes mellitus, and related complications. Earlier failures to identify the underlying causes of disease explain disappointing clinical trial results and indicate that progress will not be possible until we disentangle symptoms from the causes. This lack of progress stems from our currently poor understanding of the central role of oxidative stress in HF and any beneficial effects in terms of therapy will require the targeting of this upstream modulator. Therefore, we aim to increase our basic understanding of the pathophysiology of heart diseases associated with oxidative stress, in order to provide firm foundations for clinical innovation.

The present Special Issue aims to collect and document new findings in the pathophysiology of natural heart diseases associated with oxidative stress and the effect of antioxidants to understand their application in heart failure.

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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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