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ROS-Mediated Transition From Adaptation to Maladaptation in Myocardial Remodeling: Points of Convergence and Divergence

Guest Editor:

Dr. Oksana Kunduzova
National Institute of Health and Medical Research (INSERM) U1297, CEDEX 4, 31432 Toulouse, France

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Message from the Guest Editor

Myocardial remodeling is a response of cardiac muscle to the stressful influence and injury caused by a large number of physiological and pathological conditions. Initially, it was considered a beneficial mechanism. However, sustained and prolonged cardiac remodeling has been associated with a significant increase in the risk of cardiovascular disease and mortality. There is growing evidence that oxidative stress, defined as an excess production of reactive oxygen species (ROS) relative to antioxidant defense, plays a central role in the pathophysiology of cardiac remodeling processes. It dictates subtle changes in intracellular pathways and redox signaling at lower levels, but causes cellular dysfunction, abnormal metabolism and damage at higher levels. Many researchers are trying to understand whether ROS-mediated cardiac remodeling is a “good” response to adaptation or a “bad” process to maladaptation. This Topic aims to increase knowledge and understanding of physio(patho)logical nature of cardiac remodeling processes linked to oxidative stress status.

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Editor-in-Chief

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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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Contact Us

Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA