

Special Issue

Oxidative Stress and Metabolite Signaling in the Heart and Cancer

Message from the Guest Editors

This Special Issue plans to give an overview of the most recent advances in the field of intra/extracellular metabolite signaling and nitro-oxidative programs in cancer and cardiovascular diseases to understand and translate intermediate metabolite levels into new potential therapies. Metabolic remodeling inducing nitrosative/oxidative stress processes has also been under investigation. However, how intermediate metabolites generated from this catabolism affect signaling and post-translational modifications remains largely unexplored. During diseases, heart metabolic remodeling toward glycolysis is accompanied by changes in levels of glycolytic intermediate metabolites, and its post-translational modifications appear to be globally reduced. Still, the functional consequences of these modifications are unknown. Intermediate metabolites can bind to proteins and affect enzymatic activity or subcellular localization. Under various conditions, glucose, lactate, ketones, and amino acids are used as cardiac fuel, and the impact of these large fuel fluxes through intermediate metabolic pathways on cardiac function is even less studied.

Guest Editors

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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.

Editor-in-Chief

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