

Special Issue

Oxidative Stress in Proteomics and Metabolomics Studies of Cardiovascular Diseases

Message from the Guest Editors

Cardiovascular diseases remain the leading cause of premature death worldwide. Pathophysiological mechanisms operating in cardiac and vascular dysfunction involve a plethora of interconnected molecules within different cells, arterial layers, and subcellular compartments, resulting in biological alterations which ultimately may be visualized in biological fluids. Omics techniques allow accessing this complex framework with an unparalleled overall perspective. Oxidative stress is one of the hallmarks of cardiovascular disease development. However, despite efforts, antioxidant treatments have not been successful in controlling the development of cardiovascular diseases. Further investigation is needed in both senses, improving the knowledge of the underlying mechanisms and also identifying and monitoring therapeutic targets and effective antioxidants drugs. The aim of this Special Issue is to compile novel studies involving oxidative stress in cardiovascular diseases via omics approaches. Manuscripts investigating other diseases directly associated with increased cardiovascular risk, e.g., hypertension, diabetes mellitus, or chronic kidney disease, are also welcome.

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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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