



The Role of Aerobic Exercise in the Cardiovascular Antioxidant System

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Message from the Guest Editors

The significant effect of aerobic exercise on cardiovascular health is widely recognized. However, the mechanisms triggered by acute exercise sessions or an aerobic training, which promote cellular- or systemic-stress-responsive signaling to support chronic adaptations, are far from being understood. In particular, the role of the antioxidant system in redox signal compartmentalization and the converging endpoint for downstream adaptation on cardiovascular system is of great importance and will be highlighted through original and review contributions in this Special Issue. Other topics of interest include mediators and post-transcriptional and post-translational modifications and their impact on acute and chronic cardiovascular adaptation to the antioxidant response; the comparison of health and pathological conditions; the interaction of physical exercise with antioxidants or additional interventions for the cardiovascular system; aerobic exercise training to investigate the effect of targeting different molecular, cellular, and systemic aspects on cardiovascular antioxidant response.





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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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