

Special Issue

Antioxidants in Skeletal Muscle Physiological and Pathological Conditions

Message from the Guest Editor

The skeletal muscle compartment is highly sensitive to redox homeostasis that affects specific functions as excitation-contraction coupling or provoke failure as by accumulating oxidative stress. There are several perturbators to skeletal muscle redox homeostasis: 1) exercise, 2) environmental challenge, 3) ageing, 4) diseases. They affect skeletal muscle at fiber and regenerative level. In this scenario, antioxidant biomolecules, along with their specific source (endogenously or exogenously produced) and delivery (for example stuffed into exosomes or freely circulating) are extremely interesting. Many in vitro, ex-vivo, and in vivo studies, using different approaches and tests, have been carried out to investigate antioxidant activity of exogenous and endogenous compounds over the last few years, and the related scientific research is of great interest. Therefore, in this Special Issue, original research papers or review articles focused on the different aspects of antioxidant compound effects on skeletal muscle are welcome.

Guest Editor

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closed (20 March 2023)



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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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