



Oxidative Stress in Skeletal Muscle

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Message from the Guest Editor

The skeletal muscle is a tissue in which the generation of free radicals, including reactive oxygen species (ROS), is more pronounced. Generation of ROS represents one of the most prominent events during contractile activity, suggesting that it could affect muscle function and health. Normally, there is a balance between free radicals' production and the intrinsic repair system of the cell, which if disturbed can lead to an increase in oxidative damage to the cell. Indeed, the cells respond to oxidative stress episodes in order to prevent further tissue damage, and that failure to respond in this way is a feature of the aging process.

How do ROS act as physiological signaling molecules, though? When does oxidative stress become a harmful factor?

In this Special Issue, we invite researchers to provide original research articles and review articles regarding results in the field of oxidative stress that are negative and/or positive for skeletal muscle, with particular attention to the role of ROS, both at cellular and molecular level, at the basis of functional and homeostatic mechanisms.





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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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