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Redox Regulation of Skeletal Muscle Mass and Function in Health and Disease

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editor

The number of people affected by non-transmissible chronic diseases and aging has increased in the last years. The critical causes of these pathological states include oxidative stress—an imbalance between the formation of oxidant species, such as ROS and RNS—and antioxidant mechanisms. Many tissues, including skeletal muscle, are exposed to oxidative stress with harmful biological effects of ROS, such as alteration of muscle function and physiology. ROS can regulate several redox-sensitive signaling pathways that play a critical role in gene expression or protein modification.

We invite researchers and scientists to contribute original research and review articles that reflect recent progress in elucidating the mechanisms in the balance between ROS and cellular antioxidant machinery. We welcome all articles that describe new and essential findings on the role of oxidative stress in sarcopenia, cachexia, myopathies, or any other muscle dysfunction, and anticipate submissions that allow for expansion of knowledge and describe new strategies to treat or prevent a pathological status in which oxidative stress might be involved.

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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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