



Mitochondrial Function, Oxidative Stress and Inflammation in Skeletal Muscle

Guest Editor:

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Deadline for manuscript submissions:

closed (31 December 2020)

Message from the Guest Editor

Skeletal muscle dysfunctions are frequent and characterize many acute and chronic conditions, determining both the quality of life and prognosis of patients.

This Special Issue will publish original research papers and reviews aiming to investigate the molecular, cellular, and systemic mechanisms by which reactive oxygen species and inflammation interact to modulate muscle function, with an emphasis on the beneficial signaling effect of low level oxidative stress. Additionally, studies on the implication of skeletal muscle mitochondrial dysfunction, oxidative stress, and inflammation in acute or chronic diseases such as inflammatory myopathies, peripheral arterial diseases, shock, or major systemic diseases, at experimental or clinical levels, are welcome. Furthermore, new therapeutic avenues, potentially adapted to muscle metabolic phenotypes, and ranging from ischemic and pharmacologic conditioning, including antioxidant therapy, to damage associated pattern modulation and mitochondrial transplantation, could be shared with researchers and clinicians.

We look forward to your valuable contribution.





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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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