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Mitochondrial Function, Reactive Oxygen/Nitrogen Species and Skeletal Muscle

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Deadline for manuscript submissions:
closed (15 October 2021)

Message from the Guest Editors

Mitochondria have a key role in the handling of reactive oxygen/nitrogen species (RONS) in skeletal muscle. Traditionally, increased production of RONS has been linked to oxidative stress, resulting in impaired contractility and muscle atrophy. However, recent research has revealed important physiological signaling roles of RONS in skeletal muscle; for instance, transiently increased RONS production is involved in the triggering of beneficial adaptations in response to endurance exercise.

In this Special Issue, we aim to collect experimental research studies addressing mechanisms underlying the interactions between mitochondrial function and RONS in skeletal muscle. We welcome papers dealing with prolonged alterations in mitochondria–RONS interactions, which are generally linked to deleterious effects in muscle, as well as with transient alterations, which might trigger beneficial adaptations.

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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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