# Special Issue

# Reactive Oxygen Species in Skeletal Muscle and Adipose Tissue

## Message from the Guest Editors

Reactive oxygen species (ROS) are important signaling molecules in processes such as gene activation, cellular growth, and modulation of chemical reactions in the cell. However, at elevated levels, ROS induce oxidative damage to nucleic acids, proteins, and lipids and can cause tissue dysfunction associated with many pathological conditions. The effect of redox environment in skeletal muscle and adipose tissue has exceptional relevance to the beneficial remodeling in response to exercise, or detrimental alterations during the development of inflammatory and metabolic diseases. The interplay between both the tissues—mediated by circulating lipids, cytokines, and myokines—modifies oxidative stress and contributes to metabolic flexibility, regulates inflammatory processes, and controls whole-body homeostasis. This *Antioxidants* Special Issue is dedicated to collecting original articles and reviews focusing on the crosstalk between skeletal muscle and adipose tissue, and the role of oxidative stress in that communication.

## Guest Editors

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## Deadline for manuscript submissions

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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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