Special Issue

Oxidative Stress and Skeletal Muscle Atrophy

Message from the Guest Editors

Skeletal muscle atrophy contributes to morbidity and mortality in several conditions (e.g., aging, heart failure, cancer). It is known that oxidative stress can lead to skeletal muscle atrophy. However, our knowledge of the cellular and molecular mechanisms involved in oxidative-stress-induced atrophy, as well as a potential role for antioxidants in preserving muscle mass and strength in atrophying conditions, continues to evolve. In this Special Issue, we invite manuscript submissions that are focused on the physiology, cellular and molecular biology of oxidative stress and skeletal muscle atrophy. Studies in humans, animal models, or cultured cells are welcome. Major areas of importance include the impact of oxidative stress on (a) skeletal muscle mass and strength; (b) protein synthesis and degradation; (c) modifications to proteins, lipids or DNA; (d) mitochondrial function; (e) circulating or secreted mediators (e.g., cytokines, chemokines, and growth factors). Studies involving exercise, nutritional or antioxidant interventions are also of interest.

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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.

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