

Special Issue on **Oxidative Stress in Muscle Diseases: Current and Future Therapy**

CALL FOR PAPERS

Oxidative stress is the consequence of imbalance in formation of reactive oxygen species (ROS) and antioxidants defense leading to tissue injury. A key issue is that high levels of ROS modulate host molecular, structural, and functional muscle modifications. In pathological conditions, ROS burst contributes to cellular dysfunction and progression of muscle disease. Scientific advances have led to a better understanding of the role of oxidative stress on muscle remodeling, in turn leading to new therapeutic targets in a wide range of muscle diseases.

We invite researchers to contribute original articles and review articles that offer insight into the role of oxidative stress in acute and chronic progressive muscle disorders. Articles may address the molecular and cellular mechanisms involved in these processes as well as current therapeutic approaches. We welcome all articles that describe new and important findings on skeletal muscle and myocardial diseases.

Potential topics include but are not limited to the following:

- ▶ Oxidative stress as a catabolic signal in muscle injury
- ▶ Basic molecular and cellular mechanisms underlying oxidative stress in muscle disorders
- ▶ Recent discoveries in animal models to understand the role of oxidative stress in human muscle disorders
- ▶ New preventive and therapeutic strategies focused on oxidative stress in muscle disorders
- ▶ Complementary and alternative therapies to reduce muscle oxidative stress in aging
- ▶ Studies on oxidative muscle damage following physical activity
- ▶ Manipulation of the redox balance in therapeutic strategies for muscle diseases, *in vitro* studies
- ▶ Antioxidant therapy

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/omcl/osmt/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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