



Oxidative Stress and Inflammation in Exercise Training and Sports

Guest Editors:

Prof. Dr. Alessandra Modesti

Dipartimento di Scienze
Biomediche Sperimentali e
Cliniche, Università di Firenze,
Florence, Italy

**Prof. Dr. Pietro Amedeo
Modesti**

Dipartimento di Medicina
Sperimentale e Clinica, Università
degli Studi di Firenze, Florence,
Italy

Deadline for manuscript
submissions:
closed (28 February 2021)

Message from the Guest Editors

Different lines of evidence indicate that structured training improves the metabolic health of the whole body and skeletal muscle. Normal production of force in the muscles requires the production of ROS. The release of ROS is highly dependent on the workload and on the training programming methods, and in some extreme cases, it can lead to contractile dysfunction up to the problems of overreaching or overtraining.

The study of the relationship between biological bases that bind ROS production in the active athlete, how to conduct the training, and performance that the top athlete can achieve is thus leaving a pathophysiology research area to enter a more operational area.

Subtopics of the Special Issue include:

- New biomarkers for evaluating ROS production in athletes in training;
- Relationship between the different biomarkers and the variations of activity of the autonomous nervous system;
- Oxidative stress in training programs for different sports and for master athletes;
- Role of food supplements in sport training and in master athletes;
- Relationship between oxidative stress and inflammation in skeletal muscle and muscle diseases.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Napolitano

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)

Contact Us

Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
[X@antioxidants_OA](https://twitter.com/antioxidants_OA)