

Special Issue

Exercise-Induced Oxidative Stress in Health and Disease

Message from the Guest Editor

Exercise is related with the production of reactive oxygen and nitrogen species (RONS), which in moderate concentrations act as signalling molecules and promote key adaptations to exercise training, whereas excess production of RONS may lead to detrimental effects via the oxidation of biomolecules such as lipids and proteins as well as DNA damage. Disturbances in redox balance may result in unfavorable effects on the training-induced adaptive responses. A better understanding of the interactions between exercise and redox responses as well as the mechanisms underlying these interactions is warranted. This Special Issue aims to publish original research and review papers on aspects examining the exercise-induced redox responses in both athletic performance and health. Subtopics include but are not limited to the acute but also chronic redox status adaptations following exercise and the related mechanisms; the role of exercise-induced redox adaptations on muscle performance; the role of exercise-induced redox adaptations on health; exercise-induced redox responses in developmental ages; and nutritional strategies to encounter exercise-induced oxidative stress.

Guest Editor

Dr. Chariklia K. Deli

Department of Physical Education and Sport Science, University of Thessaly, 42100 Trikala, Greece

Deadline for manuscript submissions

closed (31 December 2023)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/150962

Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)





Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)



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

Prof. Dr. Alessandra Napolitano

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

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)