Special Issue

Oxidative Stress and Exercise

Message from the Guest Editors

Exercise training has a plethora of health benefits, such as a decrease in risk to neurovascular disease, some cancers, and type 2 diabetes. Whereas regular moderate-intensity exercise activates important cell adaptive properties, sporadic and strenuous bouts of exercise may induce oxidative stress due to an augmented production of reactive metabolites of oxygen (ROS) and nitrogen free radical species (RNS). Exercise-induced free radical formation may impair cell function by oxidatively modifying nucleic acids, where DNA damage and insufficient repair may lead to genomic instability. Antioxidant supplementation can minimise exercise-induced oxidative damage to susceptible macromolecules. In this Special Issue of *Oxidative Stress and Exercise*, we invite high-quality original manuscripts and review articles examining all aspects of exercise-induced oxidative stress, taking into consideration the basic mechanisms, consequences and function of ROS production, and whether antioxidants may either support or hinder these responses. Research integrating genetics and exercise-induced oxidative stress is of particular interest.

Guest Editors

Prof. Dr. Gareth Davison

Faculty of Life and Health Sciences, Ulster University, Belfast, Northern Ireland, UK

Dr. Conor McClean

Sport and Exercise Sciences Research Institute, Ulster University, Coleraine, UK

Deadline for manuscript submissions

closed (31 January 2021)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/39850

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

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

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)

MDPI