



Redox Signalling and Exercise

Guest Editor:

Prof. Dr. Zsolt Radák

1. Research Institute of Sport
Science, University of Physical
Education, 1123 Budapest,
Hungary

2. Faculty of Sport Sciences,
Waseda University, Tokorozawa
2-579-15, Japan

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Message from the Guest Editor

Exercise can increase the metabolism of many biochemical pathways that are associated with the enhanced generation of reactive oxygen species (ROS). It is known that ROS are important, necessary regulators of cellular function and metabolism. It is under debate whether antioxidant treatment can attenuate or eliminate exercise-induced adaptive responses in skeletal muscle and in other tissues. The effects of exercise on skeletal muscle, the brain, and the liver are quite well studied, but further investigation is necessary in order to elucidate the exercise-induced redox regulation in the kidney, gut, and reproductive organs.

This Special Issue of Redox Signalling and Exercise welcomes top quality original research papers and reviews so as to expand on our understanding and perspective on all aspects of redox homeostasis related adaptation, redox signalling, oxidative damage, and the repair process. Papers on the redox sensitive housekeeping process are very welcomed. We are very much looking forward to receiving papers on redox mediated epigenetics as a result of physical exercise.





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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.

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Contact Us

Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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