

Special Issue

Oxidative Stress and Metabolic Diseases

Message from the Guest Editor

Metabolic diseases occur when normal metabolic processes in the body are disrupted. These diseases can include a variety of ailments, such as insulin resistance, dyslipidemia, type 2 diabetes, cardiovascular disease, and cancer. In this scenario, reactive molecules, including reactive oxygen species (ROS) and reactive nitrogen species (RNS), are crucial regulators of metabolic homeostasis. Many studies support the hypothesis that oxidative stress plays a significant role in the development of metabolic disorders, particularly insulin resistance, and the treatment of oxidative stress can improve insulin sensitivity, hyperlipidemia, or fatty liver, preventing associated metabolic complications.

Understanding the role played by ROS and RNS in cell physiology has led to the development of new biomarkers and molecular targets that could be useful in the development of innovative approaches in the prevention, diagnosis, and treatment of inflammatory and metabolic diseases. Papers addressing these topics are invited for this Special Issue, especially those combining the relation of oxidative stress and nutrition in the prevention or the treatment of metabolic disorders.

Guest Editor

Dr. Daniele Vergara

Department of Biological and Environmental Sciences and Technologies, University of Salento, 73100 Lecce, Italy

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closed (31 July 2023)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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