

Special Issue

Targeted Protection of Bioactive Compounds to Mitochondria 2.0

Message from the Guest Editor

Mitochondria play a key role in many cellular processes and can rapidly adapt to meet the metabolic needs of a cell in response to changes in environmental conditions. Their dysfunction has been related to metabolic disease associated with obesity, such as insulin resistance, diabetes, cardiovascular disease, cancer and neurodegenerative disease. This Special Issue is focused on the protective effects of bioactive compounds on mitochondrial bioenergetics and dynamic behaviour. Different bioactive compounds have been shown to improve mitochondrial function and dynamic behaviour, counteracting cellular damage, tissue dysfunction and metabolic diseases. The submission of manuscripts focused on clarifying, at the cellular and molecular level, the role of bioactive compounds in regulating the interaction between mitochondria and other intracellular components, such as the endoplasmic reticulum and nucleus, as well as their impact on the interplay between mitochondrial bioenergetics, reactive oxygen species production and inflammatory pathways in the frame of the new concept of the metaflammasome, is particularly encouraged.

Guest Editor

Dr. Lillà Lionetti

Department of Chemistry and Biology, University of Salerno, 84084 Fisciano, Italy

Deadline for manuscript submissions

closed (20 May 2023)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

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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