International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 8.1

an Open Access Journal by MDPI

Primary Mitochondrial Diseases and Secondary Mitochondrial Dysfunction: New Insights and Therapies

Guest Editor:

Prof. Dr. Konstantin Belosludtsev
Institute of Theoretical and Experimental Biophysics, Russian Academy of Sciences, Institutskaya 3, 142290 Pushchino, Russia

Deadline for manuscript submissions:
closed (20 September 2023)

Message from the Guest Editor

New developments in the field of genetic methodology and molecular techniques have allowed us to recognize mitochondrial disorders as more complex and multifactorial than originally thought.

Beyond the disorders recognized as mitochondrial diseases, abnormalities in the ultrastructure and function of mitochondria in cells have been revealed in a number of unrelated pathologies. In addition, multiple lines of evidence have suggested mitochondrial dysfunction as a mechanism for pharmaceutical-drug-induced toxicity in the heart, brain, liver, and other organs and tissues. The accumulated knowledge in these areas requires research aimed at clarifying open questions.

This Special Issue is focused on the molecular and cellular mechanisms leading to mitochondrial disorders, with particular attention to molecules involved in the regulation of mitochondrial dynamics, biogenesis, and mitophagy. Additionally, research papers and review articles exploring the effects of mitochondrial therapy on cell pathologies will also be included.

International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 8.1

an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

International Journal of Molecular Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
𝕏@IJMS_MDPI