



## Multiple Enzyme Mechanism and Functions in Mitochondrial Biology

Guest Editors:

**Dr. Fabiana Trombetti**

Department of Veterinary Medical  
Sciences, Alma Mater Studiorum  
- Università di Bologna, Bologna,  
Italy

**Dr. Salvatore Nesci**

Department of Veterinary Medical  
Sciences, Alma Mater Studiorum-  
Università di Bologna, Ozzano  
Emilia, Italy

Deadline for manuscript  
submissions:  
**closed (31 July 2022)**

### Message from the Guest Editors

Mitochondria are dynamic and signalling organelles that regulate a wide variety of cellular functions and can dictate cell fate. Mitochondrial dynamics, which include mitochondrial fission, fusion and biogenesis, governs mitochondrial function and localization within the cell. In this Special Issue, we encourage the submission of manuscripts that improve and update knowledge in mitochondrial function and related enzyme mechanism to deepen their role in health and disease and reveal novel mitochondria-targeting therapeutic opportunities. Topical reviews on these topics are also welcome.

Keywords:

- Mitochondrial enzymes
- mitochondrial biogenesis
- mitochondrial metabolism
- mitochondrial respiration
- mitochondrial permeability transition
- mitochondrial cell death and diseases
- mitochondrial ROS
- mitochondria-targeted therapy
- drug discovery
- ATP synthase





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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI