

# Special Issue

## Mitochondria Genome

### Message from the Guest Editor

Mitochondria possess a remnant of the endosymbiont's genome that varies considerably in size throughout eukaryotes, ranging from ~15 kb to 11 Mbp.

Mitochondrial genomes are mostly circular, containing five to ~100 genes (usually 37 genes in metazoans). In recent decades, due to the rapid advance of next-generation sequencing technology and compact structure of mitochondrial genomes, complete mitochondrial genome data have been exponentially increased and accumulated. Extensive sequencing of mitochondrial genomes has established meaningful and unique features in gene arrangements and genetic codes as well as nucleotide sequence substitutions, shedding light on enigmatic phylogenetic relationships and evolutionary histories in eukaryotes, especially metazoans. Additionally, a mitochondrial gene component, *COI* is known for the most promising metazoan DNA barcoding marker, which has been frequently employed for molecular species identification. Mitochondrial genomes are small but powerful in a variety of aspects, such as eukaryote phylogeny, evolution, population genetics, etc.

---

### Guest Editor

Prof. Dr. Ui Wook Hwang

Department of Biology Education, Kyungpook National University,  
Daegu 41566, Republic of Korea

---

### Deadline for manuscript submissions

closed (30 November 2021)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/84737](https://mdpi.com/si/84737)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### 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.

---

### 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

---

### 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 (Organic Chemistry)