

## Special Issue

# Advancements in Molecular Research on Infertility

### Message from the Guest Editor

We are pleased to announce this Special Issue, highlighting recent advancements in molecular research on infertility and reproduction-related diseases. This issue aims to explore various key research areas including the identification of molecular biomarkers for investigating reasons for infertility and assessing gamete quality and reproductive potential through non-invasive methods. Contributions are sought on biomarkers in diverse sources such as sperm cells, sperm plasma, follicular fluid, granulosa cells and embryo culture media. These biomarkers hold promise as predictive tools for the success of assisted reproduction techniques. Additionally, several blood-based biomarkers have shown potential as predictors of pregnancy outcomes, and their validation may revolutionize prenatal care, enabling early intervention and personalized treatments. Furthermore, the investigation of immunologic biomarkers represents a fascinating avenue for exploring new frontiers in reproductive health research. We therefore invite academic and industrial investigators to submit original research articles and reviews discussing recent advancements in these areas.

### Guest Editor

Dr. Manuel Fernández-Sánchez

Department of Molecular Biology and Biochemical Engineering,  
Universidad Pablo de Olavide, 41013 Sevilla, Spain

### Deadline for manuscript submissions

closed (20 October 2024)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/174676](https://mdpi.com/si/174676)

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

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

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





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



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

[ijms](https://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 (Inorganic Chemistry)