

## Special Issue

# Nanomedicines for Diagnostic and Therapeutic Application

### Message from the Guest Editors

The continuous development of nanotechnology has led to the establishment of highly sophisticated nanomedicine strategies with transformative potential in healthcare. These nanosystems offer advanced approaches for both diagnostic and therapeutic applications, enhancing precision, efficacy, and safety. This Special Issue aims to gather cutting-edge research on the design, development, and application of nanomedicine. The integration of nanotechnology in diagnostics allows for the highly sensitive detection of biomarkers, imaging contrast enhancements, and real-time monitoring of disease progression. Similarly, nanotherapeutics is revolutionizing drug delivery, enabling targeted treatments, reducing side effects, and improving patient outcomes. We invite researchers to contribute their original research articles, reviews, and short communications addressing recent advances, challenges, and future directions in this field. Suitable topics include, but are not limited to, synthesis, characterization, and in vitro and in vivo studies which involve biomolecular assays of polymeric and lipid nanoparticles for targeted drug delivery and diagnostic and/or theranostic applications.

### Guest Editors

Dr. Nicola D'Avanzo

Department of Experimental and Clinical Medicine, "Magna Graecia" University of Catanzaro, Campus Universitario "S. Venuta"—Building of BioSciences, Viale S. Venuta, 88100 Catanzaro, Italy

Dr. Antonella Barone

Department of Clinical and Experimental Medicine, University of Catanzaro "Magna Graecia", Viale "S. Venuta", 88100 Catanzaro, Italy

### Deadline for manuscript submissions

30 July 2025



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/231200](https://mdpi.com/si/231200)

*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)