

## Special Issue

# Advances in Bioactive Nanoparticles and Cancer: From Biomarker Discovery to Drug Delivery

### Message from the Guest Editor

Bioactive nanoparticles, whose properties are strictly connected to their nanoscale size, physical structure and surface properties, exploit their function by interacting with cellular systems and can be either natural, like extracellular particles, or artificial, like liposomes and polymeric or supramolecular-based materials. Nanoparticles can be furthermore engineered to improve their stability and functionalities, such as cellular targeting or drug loading. They can be used in a wide range of applications, ranging from biosensing to cancer immunotherapy. Among them, extracellular vesicles (EVs) are natural nanoparticles released by cells in any kind of biofluids. In the last decades, EVs have been widely studied for biomarker discovery and many advances have been made in the field of cancer diagnosis.

The present Special Issue would include – but it is not limited to – topics in the field of EV-associated biomarker discovery, as well as innovative technologies based on the use of nanoparticles for biomarker discovery in cancer diagnosis and synthesis and functionalization of nanoparticles for drug delivery in cancer therapy.

---

### Guest Editor

Dr. Paola Gagni

Istituto di Scienze e Tecnologie Chimiche (SCITEC) “Giulio Natta”,  
Consiglio Nazionale delle Ricerche (CNR), 20133 Milan, Italy

---

### Deadline for manuscript submissions

closed (20 July 2025)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/216017](https://mdpi.com/si/216017)

*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)* 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, and molecular biophysics. *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. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)