

## Special Issue

# Osteosarcoma: Molecular Alterations, Heredity, and Metabolism

### Message from the Guest Editor

Osteosarcoma (OS) is the most common pediatric primary non-hematopoietic bone tumor. It arises mainly in the long bones of the extremities and the main feature is the detection of osteoid matrix produced by neoplastic cells. The etiology of osteosarcoma remains poorly understood. This tumor has a complex karyotype, and it is a so-called “orphan cancer” with no known driver oncogenes.

It is essential to investigate new specific molecular therapies for osteosarcoma to increase the survival rate of patients. These data could offer the opportunity to get a key molecular target to identify possible new strategies for early diagnosis and new therapeutic approaches for osteosarcoma and to provide a tailored treatment for each patient based on their genetic profile.

This Special Issue aims to enhance the ongoing efforts to define the sporadic and hereditary genetic and epigenetic changes that are associated with tumor formation and those associated with progression and metastasis.

---

### Guest Editor

Dr. Claudio Di Cristofano

Department of Medico-Surgical Sciences and Biotechnologies,  
Sapienza University of Rome, 04100 Latina, Italy

---

### Deadline for manuscript submissions

closed (15 November 2022)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/90696](https://mdpi.com/si/90696)

*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)