

Special Issue

Molecular Basis and Advances of Targeted Immunotherapy for Cancer

Message from the Guest Editors

Cancer cells can be considered pathogens; therefore, their related pathology depends on the tumor growth extent and the effectiveness of the immune system response. The immune response against cancer can be divided into two phases. The initial phase is called resistance, where the body tries to get rid of cancer cells, and the second is called tolerance, where the body attempts to limit the health impact caused by cancer. The activation of the immune system, known as immunosurveillance, follows the classical steps of antigen recognition, antigen presentation to effector and regulatory T cells, and the physiological end of the immune response through immune checkpoint pathways. The mechanisms of immune escape have emerged and been better defined, thus identifying new classes of immunotherapy drugs as immuno-checkpoint inhibitors. This Special Issue aims to discuss innovative biomolecular mechanisms that may represent the rationale for new targeted therapeutic strategies able to improve the response to immunotherapy in cancer patients. It welcomes original research and reviews articles mainly focused on the molecular basis and advances in cancer immunotherapy.

Guest Editors

Prof. Dr. Antonio Maccio

1. Department of Gynecologic Oncology, ARNAS G.Brotzu, 09124 Cagliari, Italy
2. Department of Surgical Sciences, University of Cagliari, 09124 Cagliari, Italy

Dr. Clelia Madeddu

Department of Medical Sciences and Public Health, University of Cagliari, Cagliari, Italy

Deadline for manuscript submissions

closed (31 October 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/97028

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)