

Special Issue

New Strategies to Overcome Resistance to Chemotherapy and Immune System in Cancer

Message from the Guest Editors

“Multidrug resistance” (MDR) cells are often simultaneously resistant to multiple stresses, such as radiotherapy, hypoxia, and nutrient shortages. Of note, MDR cells are also less recognized by the immune system, because they produce immune-suppressive metabolites and poorly raise an anti-tumor adaptive response by the host immune system in response to chemotherapy or radiotherapy. The reasons of this chemo-immune-resistance rely on the superior ability of MDR cells to adapt to stressing conditions. Metabolic rewiring and epigenetic events, such as the expression of specific miRNAs or ncRNAs, play a key role in such adaptation. This Special Issue will focus on the latest studies dissecting the molecular linkages between chemoresistance and immune-resistance, and on new possible chemo-immune-sensitizer approaches, including radio-chemotherapy or radio-immune-chemotherapy combinations, metabolic modifiers, and epigenetic modulators.

Guest Editors

Prof. Dr. Chiara Riganti

Department of Oncology, University of Torino, via Santena 5/bis, 10126 Torino, Italy

Dr. Marialessandra Contino

Department of Pharmacy, University of Bari, Bari, Italy

Deadline for manuscript submissions

closed (28 February 2019)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/15016

*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)