



Molecular Drivers of Responsiveness to Cancer Immunotherapy

Guest Editors:

Dr. Venkatesh Hegde

Department of Thoracic/Head
and Neck Medical Oncology,
University of Texas MD Anderson
Cancer Center, Houston, TX, USA

vlhegde@mdanderson.org

**Dr. Stephanie M. Dorta-
Estremera**

Cancer Biology Division,
University of Puerto Rico
Comprehensive Cancer Center,
San Juan PR; Department of
Microbiology and Medical
Zoology, University of Puerto
Rico Medical Sciences Campus,
San Juan PR, Puerto Rico

stephanie.dorta@upr.edu

Deadline for manuscript
submissions:

31 May 2022

Message from the Guest Editors

Cancer immunotherapeutics such as cancer vaccines and immune checkpoint inhibitors act by activating the immune system against cancer. Despite recent advances and encouraging successes, the pressing problem is the resistance to these treatments in the majority of patients; for example, only <10–15% of patients respond to checkpoint inhibitors such as anti-PD-1 and anti-CTLA-4. Therefore, understanding the mechanisms of resistance to immunotherapy as well as developing treatments to overcome resistance and improve responsiveness are critical areas of research. This Special Issue of the *International Journal of Molecular Sciences* will discuss emerging concepts in these areas. The topics will encompass molecular and cellular mechanisms of resistance to checkpoint blockade and anti-tumor vaccines, innate and acquired resistance, pathways of immunosuppression including suppressor cell populations, and approaches combining chemo-radiation or other targeted treatments to improve immunotherapy responsiveness and overall efficacy.





an Open Access Journal by MDPI

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

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.

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 many other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

International Journal of Molecular
Sciences
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
@IJMS_MDPI