

Special Issue

Treatment Resistance and Current Advances in Cancer Immunotherapy

Message from the Guest Editors

Hailed as a breakthrough in cancer treatment, immunotherapy continues to face significant challenges in clinical practice. The first boundary is the lack of accurate biomarkers in predicting the immunotherapy response. Another major issue is the development of resistance mechanisms, which prevent many patients from receiving benefits from immunotherapy. Depending on whether cancer cells are initially responsive to immunotherapy or not, resistance is technically categorized as primary, adaptive and acquired. Moreover, immune-related adverse events (irAEs), further limits the clinical application of immunotherapy. Considering the current state of the art, we are launching this Special Issue with the aim of gathering the latest advancements, challenges and future directions in cancer immunotherapy. Therefore, we warmly invite and encourage cutting-edge research papers and review articles on topics including checkpoint inhibitors, combination therapies, predictive/prognostic biomarkers, the tumor mutational burden and microsatellite instability. Contributions on resistance mechanisms, personalized medicine, vaccine-based immunotherapy and the microbiome are also highly welcome.

Guest Editors

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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.

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