

Special Issue

Epigenetic Genes, Biomarkers and Immunotherapy in Cancers

Message from the Guest Editors

Immunotherapies that boost the immune system response against cancer cells show promising effects in experimental and clinical setups including immune checkpoint blocking antibodies, chimeric antigen vector (CAR) T cells, vaccines based on dendritic cells or engineered cancer cells, etc.

Epigenetic modifications (i.e., DNA methylation, histone modifications, and ncRNAs) shape the transcriptional profile of tumor and immune cells, affecting tumor-immune system interactions. Epigenetic modifications within specific immune-related loci may act as biomarkers of the immunotherapy response but may also serve as targets supporting immunotherapy.

In this Special Issue, we invite the original papers, reviews, comments, and other article types that focus on epigenetic genes and modifications that may modulate the response to tumor immunotherapy. We welcome the papers focused on the epigenetic genes or machineries that may affect tumor-immune interactions, epigenetic biomarkers that may guide immunotherapy management, and epigenetic targets and drugs that may reinforce immunotherapies.

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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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