



State-of-the-Art Cancer Immunotherapies

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Message from the Guest Editors

Dear Colleagues,

The current global success in the protection against COVID-19 through vaccination has proved the effectiveness and safety of the mRNA vaccine delivered by lipid nanoparticles. Such breakthroughs, including: cancer vaccination; adoptive cell transfer therapy using CAR-T cells, TCR-T cells, and iPS cell-derived cells; immune checkpoint inhibitors; antibody therapy; dendritic cell therapy; and molecular targeting therapy, have greatly improved cancer patients' outcome. However, the overall survival rate is still unsatisfactory; therefore, it is necessary to much better understand the molecular mechanisms of cancer development and progression in the immunosuppressive tumor microenvironment.

In this Special Issue, we will focus on the latest advances in research on cancer immunotherapy ranging from basic research to clinical aspects that may advance our understanding of human cancer. Since *IJMS* is a journal of molecular science, pure clinical studies such as case reports will not be suitable for submission, but clinical submissions such as biomolecular experiments are welcome.





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Message from the Editor-in-Chief

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