



## Editorial Board Members' Collection Series: Utilization of Immune Checkpoint Inhibitors: Past, Present and Future Therapeutics in Cancer

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Deadline for manuscript submissions:

**closed (31 March 2023)**

### Message from the Guest Editors

The focus on immune checkpoint involvement in the development of cancer has increased dramatically over the last decade. Dysfunctions in these pathways, leading to excessive activation, inhibits the cells' normal response to damage, leading to unchecked cellular growth. Early pathways, such as the programmed cell death receptor (PD-1) or the cytotoxic lymphocyte-associated molecule-4 (CTLA-4) involved inhibition of the pathway to slow tumor growth. More recent, some checkpoint pathways require stimulation to exert anti-tumor actions. These pathways include CD40 and OX40 pathways. Modifying the tumor microenvironment, thus interfering with cellular energy production and utilization, has become another area of intense interest. The goal of the series is to provide a collection of review and original articles that describe the work that has been done and the outlook for therapeutic developments that target immune checkpoints to attenuate or block cancer development.





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## Message from the Editor-in-Chief

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