

## Special Issue

# Checkpoint Antibodies at the Crossroads: From Mechanisms to Multi-Modal Cancer Therapy

### Message from the Guest Editors

Cancer immunotherapy, particularly immune checkpoint inhibitors (ICIs), has redefined cancer treatment paradigms. Despite remarkable breakthroughs, durable clinical benefits remain limited to a subset of patients. This variability reflects the complexity and heterogeneity inherent to the tumor microenvironment (TME) as well as the current reliance on a narrow set of immune targets (e.g., PD-1/PD-L1, CTLA-4) and effector cells (primarily T cells). To overcome resistance and broaden therapeutic efficacy, there is a pressing need to deepen our mechanistic understanding of immune checkpoint pathways and to explore synergistic combinations that engage diverse immune cell populations and signaling axes.

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