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Immunotherapy in pancreatic cancer: Unleash its potential through novel combinations

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Abstract

Pancreatic cancer is the third leading cause of cancer mortality in both men and women in the United States, with poor response to current standard of care and short progression-free and overall survival (OS). Immune therapies that target CTLA-4, PD-1, and PD-L1 checkpoints have shown remarkable activities in several cancers such as melanoma, renal cell carcinoma, and non-small cell lung cancer due to high numbers of somatic mutations, combined with cytotoxic T-cell responses. However, single checkpoint blockade was ineffective in pancreatic cancer, highlighting the challenges including the poor antigenicity, a dense desmoplastic stroma, and a largely immunosuppressive microenvironment. In this review, we will summarize available clinical results and ongoing efforts of combining immune checkpoint therapies with other treatment modalities such as chemotherapy, radiotherapy, and targeted therapy

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