

Title

Antigen Agnostic Therapeutic Cancer Vaccines

Abstract

The discovery of negative immune checkpoints has led to establish a novel cancer treatment modality. However, in spite of the initial successes, only 10 to 20% of patients suffered with each type of cancer were responsive to these drugs. As anti-cancer immune activation is compromised by a lack of antigenicity and chronic immunosuppressive microenvironments, an effective immuno-oncology modality that converts cold tumors into hot tumors is crucial. To initiate the specific immune responses, therapeutic cancer vaccines encompass the extensive characterization of patients' neoantigens. In this respect I will propose antigen agnostic therapeutic cancer vaccine strategies which maximize the activation of naive cancer-specific T cells without the prior knowledge of the patients' antigen status.

Keywords (5 keywords):

Therapeutic Cancer Vaccine, Immuno-Oncology, Antigen-Agnostic, Cancer Immune Microenvironment, Combination Immune Therapy