Immunotherapeutic Breakthroughs: A Comprehensive Review of Cancer Vaccines in Treatment

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Abstract

Cancer vaccines represent a paradigm shift in the treatment landscape, harnessing the power of the immune system to combat malignancies. This comprehensive review article explores the diverse landscape of cancer vaccines, delving into the underlying principles, mechanism of action, and the wealth of literature supporting their e f cacy in the treatment of cancer patients. A meticulous literature review was conducted, encompassing pivotal clinical trials, experimental studies, and case reports. The article provides a thorough analysis of cancer vaccine platforms, the types of cancers targeted, and their impact on patient outcomes. Furthermore, the review addresses current challenges, emerging trends, and the future directions of cancer vaccines as a transformative force in cancer therapy.

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Received: 01-Jan-2024, Manuscript No. acp-24-124841; Editor assigned: 03-Jan-2024, PreQC No. acp-24-124841(PQ); Reviewed: 17-Jan-2024, QC No. acp-24-124841; Revised: 23-Jan-2024, Manuscript No. acp-24-124841(R); Published: 30-Jan-2024; DOI: 10.4172/2472-0429.1000203

Citation: Wang C (2024) Immunotherapeutic Breakthroughs: A Comprehensive Review of Cancer Vaccines in Treatment Adv Cancer Prev 8: 203.

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