Cancer Vaccines: Transforming Treatment and Prevention

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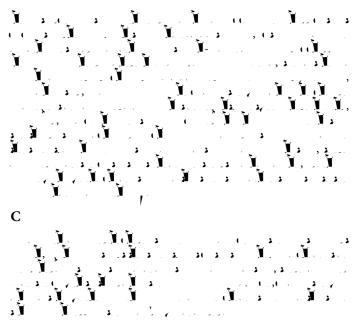
Abstract

Cancer vaccines are emerging as a transformative approach in oncology, of ering innovative strategies for both the treatment and prevention of cancer. Unlike traditional vaccines for infectious diseases, cancer vaccines harness the body's immune system to target and destroy cancer cells or to prevent cancer from developing. This article explores the two main types of cancer vaccines—preventive and therapeutic—and their mechanisms of action. It highlights recent advancements, including personalized cancer vaccines, neoantigen vaccines, combination therapies, and mRNA vaccines, which have significantly enhanced vaccine e f cacy and development. The clinical impact of these vaccines is evident

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Citation: John K (2024) Cancer Vaccines: Transforming Treatment and Prevention. Adv Cancer Prev 8: 227.



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