Unlocking the Potential: Cancer Cells Triggering Cancer-Specific Protective Immunity

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Abstract

This review explores a paradigm-shifting concept in the realm of oncology—harnessing cancer cells to activate $\& a \& A^{-} = A \& A = A^{-} \otimes A = A^{-} \otimes A = A^{-} \otimes A^{-} \otimes$

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immune system, allowing them to thrive unchecked [7]. These evasion tactics include suppressing immune responses, adopting disguises, and creating immunosuppressive microenvironments. Unraveling these mechanisms is crucial to developing interventions that can counteract the immune escape employed by cancer cells. Recent advancements are challenging the conventional norms of cancer treatment by harnessing the body's immune system to specifically target and destroy cancer cells. This involves activating cancer-specific protective immunity, a nuanced approach that involves reprogramming immune cells to recognize and attack cancer cells with precision. Immunotherapies such as checkpoint inhibitors, adoptive cell therapies, and cancer vaccines are at the forefront of this revolutionary shift.

Checkpoint inhibitors

Checkpoint inhibitors, such as anti-PD-1 and anti-CTLA-4 antibodies, are designed to lift the brakes on the immune system. By blocking the inhibitory signals that cancer cells exploit to evade immune detection, checkpoint inhibitors empower the immune system to mount a robust response against the malignancy. Adoptive cell Page 2 of 3

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