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Autologous Colorectal Tumor Antigen-pulsed Dendritic Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *Autologous Colorectal Tumor Antigen-pulsed Dendritic Cell Vaccine*. NCI Thesaurus. Code C123918.

A dendritic cell (DC)-based cancer vaccine composed of autologous DCs pulsed with tumor cell lysates from a colorectal cancer patient containing tumor-associated antigens (TAAs), with potential immunostimulatory and antineoplastic activities. Upon administration, autologous colorectal tumor antigen-pulsed DC vaccine exposes the immune system to colorectal tumor cell antigens, which may result in cytotoxic T-lymphocyte (CTL)-mediated immune responses against the colorectal cancer cells. This leads to cancer cell lysis. The tumor cell lysate contains a range of antigens that are essential for the neoplastic growth and survival of the cancer cells.