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Allogeneic Mesothelioma Tumor Lysate-pulsed Autologous Dendritic Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *Allogeneic Mesothelioma Tumor Lysate-pulsed Autologous Dendritic Cell Vaccine*. NCI Thesaurus. Code C121640.

A cell-based cancer vaccine composed of autologous dendritic cells (DCs) pulsed with a mixture of lysates from five allogeneic mesothelioma tumor cell lines, with potential immunostimulatory and antineoplastic activities. Upon leukapheresis, DCs are loaded with allogeneic mesothelioma tumor cell lysates. Upon re-administration of the allogeneic mesothelioma tumor lysate-pulsed autologous DC vaccine, the immune system is exposed to an undefined amount of mesothelioma-associated antigens, which stimulates the induction of a specific cytotoxic T-lymphocyte (CTL) response against mesothelioma tumor cells and leads to tumor cell lysis.