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Autologous AML/Dendritic Cell Fusion Vaccine

National Cancer Institute

Source

National Cancer Institute. *Autologous AML/Dendritic Cell Fusion Vaccine*. NCI Thesaurus. Code C148214.

A therapeutic cell-based cancer vaccine consisting of autologous dendritic cells (DCs) fused with autologous acute myeloid leukemia (AML) cells, with potential immunostimulatory and antineoplastic activities. The autologous AML/DC fusion vaccine is generated in vitro by mixing DCs and irradiated AML cells harvested from individual patients, in the presence of polyethylene glycol (PEG), to produce hybrid DC-leukemia fusion cells. Upon re-administration, the autologous AML/DC fusion vaccine may elicit a cytotoxic T-lymphocyte (CTL)-mediated antitumor immune response against a broad array of AML-associated antigens, which may lead to AML cell lysis.