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# Autologous NSCLC Peptide-specific Dendritic Cell Vaccine

National Cancer Institute

## Source

National Cancer Institute. *Autologous NSCLC Peptide-specific Dendritic Cell Vaccine*. NCI Thesaurus. Code C121848.

A personalized cell-based cancer vaccine composed of autologous dendritic cells (DCs) pulsed with immunogenic peptides derived from autologous non-small cell lung cancer (NSCLC) cells, with potential immunostimulating and antineoplastic activities. During leukapheresis, mature DCs are loaded with autologous NSCLC-derived peptides. Upon re-administration of the NSCLC peptide-specific DC vaccine, the immune system is exposed to NSCLC-associated antigens. This results in the induction of a specific cytotoxic T-lymphocyte (CTL) response against NSCLC cells and tumor cell lysis.