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Autologous Anti-PSMA Gene-Modified T-Lymphocytes

National Cancer Institute

Source

National Cancer Institute. <u>Autologous Anti-PSMA Gene-Modified T-Lymphocytes</u>. NCI Thesaurus. Code C78197.

Autologous prostate specific membrane antigen (PSMA) gene-modified T lymphocytes with potential antineoplastic activity. Human autologous T-lymphocytes are isolated and transduced ex vivo with a retrovirus encoding a chimeric immune receptor (CIR) consisting of an antibody fragment against PSMA fused with signaling domains of the T cell. Upon reintroduction into the patient, autologous anti-PSMA gene-modified T-cells bind to PSMA-expressing prostate cancer cells, which may result in specific cytotoxic T-lymphocyte (CTL) tumor cell killing.

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