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Autologous Genetically-modified MAGE-A4 C1032 T Cells

National Cancer Institute

Source

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Autologous human T-lymphocytes transduced with a retroviral vector encoding a T-cell receptor (TCR) specific for the human melanoma antigen A4 (MAGE-A4), with potential immunostimulatory and antineoplastic activities. Upon leukapheresis, isolation, transduction, expansion ex vivo, and reintroduction into the patient, the autologous genetically-modified MAGE-A4 C1032 T-cells bind to tumor cells expressing MAGE-A4. This may result in both inhibition of growth and increased cell death of MAGE-A4-expressing tumor cells. The tumor-associated antigen MAGE-A4, a member of the MAGE-A family of cancer testis antigens, is overexpressed by a variety of cancer cell types.