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Autologous NSCLC DNA-Transfected Semi-Allogeneic Fibroblasts MRC-5 Vaccine

National Cancer Institute

Source

National Cancer Institute. *Autologous NSCLC DNA-Transfected Semi-Allogeneic Fibroblasts MRC-5 Vaccine*. NCI Thesaurus. Code C82416.

A vaccine consisting of irradiated human fetal lung fibroblasts (Medical Research Council 5 or MRC-5) transfected with autologous non-small cell lung cancer (NSCLC)-derived DNA with potential immunostimulatory and antineoplastic activities. Upon administration, autologous NSCLC DNA-transfected semi-allogeneic fibroblasts MRC-5 vaccine expresses NSCLC tumor-associated antigens (TAAs) in addition to MHC class I-determinants and the co-stimulatory molecule B7.1, which may induce a cytotoxic T-lymphocyte (CTL) response against NSCLC cells. The MRC-5 cell line is a human diploid lung fibroblast cell line established in 1966.