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Autologous HNSCC DNA-transfected Semi-allogeneic Fibroblasts MRC-5 Vaccine

National Cancer Institute

Source

National Cancer Institute. *Autologous HNSCC DNA-transfected Semi-allogeneic Fibroblasts MRC-5 Vaccine*. NCI Thesaurus. Code C117725.

A vaccine consisting of lethally irradiated human fetal lung fibroblasts (Medical Research Council 5 or MRC-5) transfected with autologous tumor DNA derived from a head and neck squamous cell carcinoma (HNSCC), with potential immunostimulatory and antineoplastic activities. Upon intradermal administration, the autologous HNSCC DNA-transfected semi-allogeneic fibroblasts MRC-5 vaccine expresses HNSCC tumor-associated antigens (TAAs), which may activate the immune system to induce a cytotoxic T-lymphocyte (CTL) response against HNSCC cells. The MRC-5 cell line, established in 1966, is a human diploid lung fibroblast cell line derived from the human lung tissue of a 14-week-old male fetus.