

Title (en)

GENETICALLY MODIFIED T-CELLS, METHOD FOR PRODUCING THEM AND USE THEREOF

Title (de)

GEN-MODIFIZIERTE T-ZELLEN, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)

LYMPHOCYTES T GENETIQUEMENT MODIFIES, LEUR PROCEDE DE PRODUCTION ET LEUR UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO0194551A2] The invention relates to in-vitro genetically modified T-cells for preventing allogenic transplant rejection in vivo, to methods for producing them and to their use. T-cells of the transplant recipient are stimulated in vitro with cells of the transplant donor or with cells which express dominant MHC molecules and at the same time, transduced with immunomodulating genes by means of gene transfer. After the gene transfer, the transduced T-cells begin to express the immunomodulatory genes. The gene transfer can be carried out using retro viruses, other viral vector systems or liposomes. The conditions selected for the experiment, which result in the generation and expansion of allo-specific T-cells, ensure that the T-cells migrate into the allogenic transplant and into the draining lymph nodes specifically according to the in vivo application and can express the immunomodulating genes there. The invention provides an effective means of preventing the rejection of allogenic transplants (cells, tissues, organs) and is therefore an effective means of inducing and maintaining tolerance of allogenic transplants (cells, tissues, organs) in transplant medicine.

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