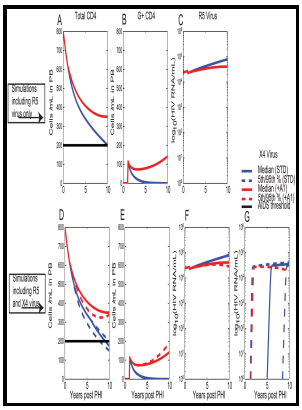
Retroviral transfer of cellular and viral genes into haemopoietic cells.

University of Manchester - Enhanced transduction of hematopoietic cells



Description: -
-Retroviral transfer of cellular and viral genes into haemopoietic cells.
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Notes: Manchester thesis (Ph.D.), Faculty of Medicine.
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Side effects of retroviral gene transfer into hematopoietic stem cells

These serious adverse events have sparked a revision of the assessment of risks and benefits of integrating gene transfer for hematological diseases and prompted the development and application of new generations of viral vectors with recognized superior safety characteristics. Half of the AAV transduced cells were removed and induced with TNFα for 12 h.

Increased gene transfer into human hematopoietic progenitor cells by extended in vitro exposure to a pseudotyped retroviral vector

Production of rAAV, free of helper virus involved a four-way transfection of approximately 1 × 10 7 293T cells on 15 cm plates with pRep-Ad 2.

Retroviral Transfer of Genes into Canine Hematopoietic Progenitor Cells

Gene therapy of X-linked severe combined immunodeficiency by use of a pseudotyped gammaretroviral vector.

Transduction of Primary Hematopoietic Cells by Retroviral Vectors

Primary immunodeficiency diseases have led to the way in this field of gene therapy as an example and a model.

Lentiviral gene transfer into human and murine hematopoietic stem cells: size matters

Interpretation and conclusions: Our data show that that an established bone marrow stromal cell can be engineered to enhance the genetic modification of primitive hematopoietic and lymphoid progenitors using a clinically relevant method. Cells from all three sources that had been expanded ex vivo in the presence of stem cell factor SCF , interleukin-3 IL-3 , IL-6, and granulocyte colony-stimulating factor G-CSF showed transduction efficiencies ranging from 5-45%, as measured by acquisition of G418 resistance.

Efficient gene transfer into primitive hematopoietic progenitors using a bone marrow microenvironment cell line engineered to

produce retroviral vectors

Role of the INK4a locus in tumor suppression and cell mortality.

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