

Title (en)

A METHOD FOR DEPOPULATING OF VERTEBRATE TESTIS AND FOR GENERATION OF TRANSGENIC SPECIES

Title (de)

VERFAHREN ZUR ENTVÖLKERUNG VON VERTEBRATE-TESTIS UND ZUR GENERIERUNG VON TRANSGENEN TIERARTEN

Title (fr)

TECHNIQUE PERMETTANT DE DEPEUPLER UN TESTICULE DE VERTEBRE ET DE GENERER UNE ESPECE TRANSGENIQUE

Publication

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Application

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Abstract (en)

[origin: WO0029601A1] A composition for in vitro and in vivo transfection of vertebrate male germ cells comprises a nucleic acid or transgene, and a gene delivery system, and optionally a protective internalizing agent, such as an endosomal lytic agent, a virus or a viral component, which is internalized by cells along with the transgene and which enhances gene transfer through the cytoplasm to the nucleus of the male germ cell. A method of genetically altering a vertebrate male germ cell in vivo employs a lentiviral-derived vector. A method of substantially depopulating a vertebrate testis employs a combination of a dose of an alkylating agent, such as busulfan, chlorambucil, cyclophosphamide, melphalan, or ethyl ethanesulfonic acid, and a dose of gamma radiation. A pharmaceutical preparation and a transfer kit utilize the composition. A method for introducing a polynucleotide into vertebrate male germ cells comprises the administration of the composition to a vertebrate. A method for isolating or selecting transfected cells utilizes a reporter gene, and a method for administering transfected male germ cells utilizes male germ cells which have been transfected in vitro.

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