

Title (en)

METHOD FOR PRODUCING CLONED TIGERS BY EMPLOYING INTER-SPECIES NUCLEAR TRANSPLANTATION TECHNIQUE

Title (de)

VERFAHREN ZUR PRODUKTION VON GEKLONTEN TIGERN MITTELS EINER INTERSPEZIES-KERNTRANSPLANTATIONSTECHNIK

Title (fr)

PROCEDE DE PRODUCTION DE TIGRES CLONES UTILISANT UNE TECHNIQUE DE TRANSPLANTATION DE NOYAU INTER-ESPECES

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Application

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Abstract (en)

[origin: WO0100794A1] The present invention provides a method for producing cloned tigers by employing inter-species nuclear transplantation technique. The method for producing cloned tigers of the invention comprises the steps of: preparing donor somatic cell lines collected from tiger; maturing oocytes collected from ovary of cow or cat in vitro; removing the cumulus cells surrounding the oocytes; cutting a portion of zona pellucida of the matured oocytes to make a slit, and squeezing out a portion of cytoplasm including the first polar body through the slit to give enucleated recipient oocytes; transferring a nucleus to the recipient oocyte by injection of the donor cells to the enucleated recipient oocytes, followed by the subsequent electrofusion and activation of the electrofused cells to give embryos; postactivating and culturing the embryos in vitro; and, transferring the cultured embryos into surrogate mothers to produce cloned tigers. The present invention can be widely applied in preservation of genetic characters of rare or endangered species permanently in the form of nuclear transferred embryos.

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