

Title (en)

EMBRYONIC OR STEM-LIKE CELL LINES PRODUCED BY CROSS SPECIES NUCLEAR TRANSPLANTATION AND METHODS FOR ENHANCING EMBRYONIC DEVELOPMENT BY GENETIC ALTERATION OF DONOR CELLS OR BY TISSUE CULTURE CONDITIONS

Title (de)

DURCH SPEZIES-ÜBERGREIFENDE, NUKLEÄRE TRANSPLANTATION HERGESTELLTE EMBRYO- ODER STAMMZELL-ÄHNLICHE ZELLINIEN UND VERFAHREN ZUR VERBESSERUNG DER EMBRYOENTWICKLUNG DURCH GENETISCHE VERÄNDERUNG VON DONORZELLEN ODER DURCH VERÄNDERUNG DER GEWEBEKULTUR

Title (fr)

LIGNEES DE CELLULES EMBRYONNAIRES OU DE TYPE SOUCHE PRODUITES PAR TRANSPLANTATION NUCLEAIRE D'ESPECES CROISEES ET TECHNIQUE DESTINEE A RENFORCER LE DEVELOPPEMENT EMBRYONNAIRE PAR MODIFICATION GENETIQUE DE CELLULES DONNEUSES OU PAR CULTURE DE TISSUS.

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0119977A1] An improved method of nuclear transfer involving the transplantation of differentiated donor cell nuclei into enucleated oocytes of a species different from the donor cell is provided. The resultant nuclear transfer units are useful for the production of isogenic embryonic stem cells, in particular human isogenic embryonic or stem cells. These embryonic or stem-like cells are useful for producing desired differentiated cells and for introduction, removal or modification, of desired genes, e.g., at specific sites of the genome of such cells by homologous recombination. These cells, which may contain a heterologous gene, are especially useful in cell transplantation therapies and for *in vitro* study of cell differentiation. Also, methods for improving nuclear transfer efficiency by genetically altering donor cells to inhibit apoptosis, select for a specific cell cycle and/or enhance embryonic growth and development are provided.

IPC 1-7

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IPC 8 full level

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Citation (search report)

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- See references of WO 0119977A1

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