

Title (en)
EMBRYONIC OR STEM-LIKE CELL LINES PRODUCED BY CROSS-SPECIES NUCLEAR TRANSPLANTATION

Title (de)
EMBRYONISCHE ZELLINIEN ODER STAMMZELL-ÄHNLICHE ZELLINIEN, DIE DURCH KERNTRANSPLANTATION ZWISCHEN VERSCHIEDENEN SPEZIES PRODUZIERT WURDEN

Title (fr)
LIGNÉES CELLULAIRES EMBRYONNAIRES OU DE TYPE SOUCHE PRODUITES PAR TRANSPLANTATION NUCLEAIRE D'ESPÈCES CROISÉES

Publication
EP 1060243 A1 20001220 (EN)

Application
EP 99911062 A 19990302

Priority

- US 9904608 W 19990302
- US 3294598 A 19980302

Abstract (en)
[origin: WO9945100A1] 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
A01K 67/027; C12N 15/00; C12N 5/16

IPC 8 full level
C12N 5/06 (2006.01); **C12N 15/09** (2006.01); **C12N 15/87** (2006.01); **C12N 15/873** (2010.01); **A61K 35/12** (2006.01)

CPC (source: EP)
C12N 15/873 (2013.01); **A01K 2217/075** (2013.01); **A61K 35/12** (2013.01); **C12N 2510/00** (2013.01); **C12N 2517/04** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9945100 A1 19990910; AU 2979599 A 19990920; AU 759322 B2 20030410; BR 9908499 A 20011226; CA 2323094 A1 19990910; CN 1299408 A 20010613; EP 1060243 A1 20001220; EP 1060243 A4 20050309; IL 138201 A0 20011031; JP 2002505100 A 20020219; NZ 506808 A 20031219

DOCDB simple family (application)
US 9904608 W 19990302; AU 2979599 A 19990302; BR 9908499 A 19990302; CA 2323094 A 19990302; CN 99805691 A 19990302; EP 99911062 A 19990302; IL 1382019 A 19990302; JP 2000534632 A 19990302; NZ 50680899 A 19990302