

Title (en)
CLONING USING DONOR NUCLEI FROM NON-SERUM STARVED, DIFFERENTIATED CELLS

Title (de)
Klonierung unter Verwendung von Spender-Kernen aus Serum-entzogenen, differenzierten Zellen

Title (fr)
CLONAGE A L'AIDE DE NOYAUX DONNEURS A PARTIR DE CELLULES DIFFERENTIEES NE PRESENTANT PAS DE CARENCE SERIQUE

Publication
EP 1017422 A1 20000712 (EN)

Application
EP 98931400 A 19980624

Priority

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- US 88828397 A 19970703

Abstract (en)
 [origin: WO9901163A1] An improved method of nuclear transfer involving the transplantation of donor differentiated cell nuclei from non-serum starved cells into enucleated oocytes of the same species as the donor cell is provided. The resultant nuclear transfer units are useful for multiplication of genotypes and transgenic genotypes by the production of fetuses and offspring, and for production of isogenic CICM cells, including human isogenic embryonic or stem cells. Production of genetically engineered or transgenic mammalian embryos, fetuses and offspring is facilitated by the present method since the differentiated cell source of the donor nuclei can be genetically modified and clonally propagated.

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IPC 8 full level
A01K 67/02 (2006.01); **A61K 35/12** (2006.01); **A61K 48/00** (2006.01); **A61K 49/00** (2006.01); **A61P 25/16** (2006.01); **A61P 25/28** (2006.01); **C12N 5/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/87** (2006.01); **C12N 15/877** (2010.01); **A61K 38/00** (2006.01)

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Citation (third parties)
 Third party :

- WO 9707668 A1 19970306 - ROSLIN INST EDINBURGH [GB], et al
- US 5945577 A 19990831 - STICE STEVEN L [US], et al
- CIBELLI J.B. ET AL.: "Cloned transgenic calves produced from nonquiescent fetal fibroblasts", SCIENCE, vol. 280, 22 May 1998 (1998-05-22), pages 1256 - 1258, XP000786003
- MACKENZIE D., COHEN P.: "Vive le Clone ! A French calf answers some of the questions about cloning", NEW SCIENTIST, 21 March 1998 (1998-03-21), pages 1 PG, XP002970999
- ZAWADA W.M. ET AL.: "Somatic cell cloned transgenic bovine neurons for transplantation in Parkinsonian rats", NATURE MEDICINE, vol. 4, no. 5, May 1998 (1998-05-01), pages 569 - 574, XP002938435

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