

Title (en)

MAMMALIAN CLONING BY EMBRYONIC STEM CELL (ESC) NUCLEAR TRANSPLANTATION AND ESC

Title (de)

KLONIERUNG VON SÄUGETIEREN DURCH NUKLEÄRE TRANSPLANTATION EMBRYONALER STAMMZELLEN UND ESC

Title (fr)

CLONAGE MAMMALIEN PAR TRANSPLANTATION NUCLEAIRE DE CELLULES SOUCHES EMBRYONNAIRES (CSE) ET CSE

Publication

EP 0746610 A4 19971126 (EN)

Application

EP 93923115 A 19930922

Priority

US 9308878 W 19930922

Abstract (en)

[origin: WO9508625A1] The present invention is generally directed to a process for multiplying (cloning) embryos and specifically directed to a process for producing large numbers of identical mammalian embryos by transplanting embryonic stem cell nuclei into enucleated recipient oocytes, enucleated two cell embryos, or replacing the inner cell mass of a mammalian blastocyst with donor mammalian embryonic stem cells. Accordingly, the present invention is also generally directed to a process for cloning live animals by transplanting embryonic stem cell nuclei into enucleated recipient oocytes, enucleated two cell embryos, or replacing the inner cell mass of a mammalian blastocyst with donor mammalian embryonic stem cells.

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IPC 8 full level

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Citation (search report)

- [XY] MODLINSKI, J.A. ET AL.: "Developmental capacity of mouse embryonic stem cells and embryonic stem cell nuclei", ANIMAL SCIENCE PAPERS AND REPORTS, vol. 11, no. 2, 1 January 1993 (1993-01-01), pages 135 - 140, XP000603974 & Meeting "Molecular Biology and Embryo Technology in Animal Breeding" September 27-30, 1992 Jastrzebiec & Popielno, Poland
- [Y] SEAMARK, R.F.: "Embryo multiplication- Present status of nuclear transfer and embryonic stem cell technology in livestock", MEDE FAC LANDBOUW UNIV GENT, vol. 57, no. 4 part b, 1992, pages 1837 - 1842, XP000603947
- [Y] REED, M.A. ET AL.: "Progress in establishing embryonic stem cells in cattle", ANIMAL SCIENCE PAPERS AND REPORTS, vol. 11, no. 2, 1 January 1993 (1993-01-01), pages 141 - 146, XP000603973 & Meeting: "Molecular Biology and Embryo Technology in Animal Breeding" September 27-30, 1992 Jastrzebiec & Popielno, Poland
- [AX] FIRST, N.L. & PRATHER, R.C.: "Genomic potential in mammals", DIFFERENTIATION, vol. 48, no. 1, September 1991 (1991-09-01), pages 1 - 8, XP000607074
- [T] SIMS, M. ET FIRST, N.L.: "Production of calves by transfer of nuclei from cultured inner cell mass cells", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 91, no. 13, 21 September 1994 (1994-09-21), WASHINGTON US, pages 6143 - 6147, XP000604993
- [T] FIRST, N.L. ET AL.: "Systems for production of calves from cultured bovine embryonic cells", REPRODUCTION, FERTILITY AND DEVELOPMENT, vol. 6, no. 5, 1 January 1994 (1994-01-01), pages 553 - 562, XP000603897
- See references of WO 9508625A1

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