

Title (en)

METHOD FOR MULTIPLYING STEM CELLS

Title (de)

VERFAHREN ZUR VERMEHRUNG VON STAMMZELLEN

Title (fr)

PROCEDE DE MULTIPLICATION DE CELLULES SOUCHES

Publication

EP 1181354 A1 20020227 (FR)

Application

EP 00936985 A 20000530

Priority

- FR 0001486 W 20000530
- FR 9907011 A 19990603

Abstract (en)

[origin: FR2794473A1] The invention relates to the use of a cellular development inhibitor in a controlled manner in order to maintain an undifferentiated stem cell state, especially one of human stem cells, whereby cell division is permitted.

IPC 1-7

C12N 5/06; C12N 5/08

IPC 8 full level

C12N 5/0789 (2010.01); **A61K 35/12** (2015.01); **A61K 35/545** (2015.01); **A61P 1/16** (2006.01); **A61P 9/00** (2006.01); **A61P 13/12** (2006.01); **A61P 17/00** (2006.01); **A61P 19/00** (2006.01); **A61P 25/00** (2006.01)

CPC (source: EP US)

A61P 1/16 (2018.01 - EP); **A61P 9/00** (2018.01 - EP); **A61P 13/12** (2018.01 - EP); **A61P 17/00** (2018.01 - EP); **A61P 19/00** (2018.01 - EP); **A61P 25/00** (2018.01 - EP); **C12N 5/0647** (2013.01 - EP US); **C12N 2501/125** (2013.01 - EP US); **C12N 2501/145** (2013.01 - EP US); **C12N 2501/15** (2013.01 - EP US); **C12N 2501/23** (2013.01 - EP US); **C12N 2501/26** (2013.01 - EP US)

Citation (examination)

- AMIT M ET AL: "Feeder layer- and serum-free culture of human embryonic stem cells.", BIOLOGY OF REPRODUCTION MAR 2004 LNKD- PUBMED:14627547, vol. 70, no. 3, March 2004 (2004-03-01), pages 837 - 845, ISSN: 0006-3363
- PEIFFER I ET AL: "A sub-population of high proliferative potential-quiescent human mesenchymal stem cells is under the reversible control of interferon alpha/beta.", LEUKEMIA : OFFICIAL JOURNAL OF THE LEUKEMIA SOCIETY OF AMERICA, LEUKEMIA RESEARCH FUND, U.K APR 2007 LNKD- PUBMED:17375123, vol. 21, no. 4, April 2007 (2007-04-01), pages 714 - 724, ISSN: 0887-6924
- BEATTIE GILLIAN M ET AL: "Activin A maintains pluripotency of human embryonic stem cells in the absence of feeder layers.", STEM CELLS (DAYTON, OHIO) APR 2005 LNKD- PUBMED:15790770, vol. 23, no. 4, April 2005 (2005-04-01), pages 489 - 495, ISSN: 1066-5099
- FORTUNEL N ET AL: "Specific dose-response effects of TGF-beta1 on developmentally distinct hematopoietic stem/progenitor cells from human umbilical cord blood.", THE HEMATOLOGY JOURNAL : THE OFFICIAL JOURNAL OF THE EUROPEAN HAEMATOLOGY ASSOCIATION / EHA 2000 LNKD- PUBMED:11920180, vol. 1, no. 2, 2000, pages 126 - 135, ISSN: 1466-4860
- HATZFELD MECHTHILD ET AL: "Targeting of p0071 to desmosomes and adherens junctions is mediated by different protein domains.", JOURNAL OF CELL SCIENCE 1 APR 2003 LNKD- PUBMED:12615965, vol. 116, no. Pt 7, 1 April 2003 (2003-04-01), pages 1219 - 1233, ISSN: 0021-9533
- AVERY STUART ET AL: "The regulation of self-renewal in human embryonic stem cells.", STEM CELLS AND DEVELOPMENT OCT 2006 LNKD- PUBMED:17105408, vol. 15, no. 5, October 2006 (2006-10-01), pages 729 - 740, ISSN: 1547-3287
- VALLIER LUDOVIC ET AL: "Activin/Nodal and FGF pathways cooperate to maintain pluripotency of human embryonic stem cells.", JOURNAL OF CELL SCIENCE 1 OCT 2005 LNKD- PUBMED:16179608, vol. 118, no. Pt 19, 1 October 2005 (2005-10-01), pages 4495 - 4509, ISSN: 0021-9533
- See also references of WO 0075290A1

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)

FR 2794473 A1 20001208; FR 2794473 B1 20030926; CA 2375485 A1 20001214; EP 1181354 A1 20020227; JP 2003501081 A 20030114; US 2009325289 A1 20091231; US 7601534 B1 20091013; WO 0075290 A1 20001214

DOCDB simple family (application)

FR 9907011 A 19990603; CA 2375485 A 20000530; EP 00936985 A 20000530; FR 0001486 W 20000530; JP 2001502556 A 20000530; US 55506209 A 20090908; US 98048400 A 20000530