

Title (en)
ENTRAPPED STEM CELLS AND USES THEREOF

Title (de)
EINGEFANGENE STAMMZELLEN UND VERWENDUNGEN DAVON

Title (fr)
CELLULES SOUCHES PIEGEES ET LEURS UTILISATIONS

Publication
EP 1660633 B9 20150506 (EN)

Application
EP 04780535 A 20040809

Priority
• US 2004025713 W 20040809
• US 65527503 A 20030904

Abstract (en)
[origin: US2005053586A1] The invention relates to the stem cells, embryonic stem cells in particular. It has been found that, when these stem cells are entrapped such that their proliferation is inhibited, they produce material which inhibits the proliferation of other, non-entrapped cells, including stem cells and neoplastic and/or hyperproliferative, but otherwise normal cells. It has also been found that entrapped cancer cells will produce material which inhibits the proliferation of stem cells. Further, it has been found that the entrapment of the stem cells inhibits their differentiation and thus the entrapment process can serve as a long-term storage device for maintaining the undifferentiated state of at least a portion of the entrapped cells.

IPC 8 full level
A01N 63/00 (2006.01); **C12N 5/074** (2010.01); **A01N 1/02** (2006.01); **A01N 65/00** (2009.01); **A61K 9/14** (2006.01); **A61K 35/13** (2015.01); **A61K 35/14** (2006.01); **A61K 35/48** (2006.01); **A61K 35/545** (2015.01); **A61K 48/00** (2006.01); **C12N 5/00** (2006.01); **C12N 5/02** (2006.01); **C12N 5/071** (2010.01); **C12N 5/0789** (2010.01)

CPC (source: EP KR NO US)
A01N 1/0205 (2013.01 - EP US); **A01N 1/0231** (2013.01 - EP US); **A61K 35/13** (2013.01 - EP US); **A61K 35/545** (2013.01 - EP US); **A61K 48/00** (2013.01 - NO); **A61P 35/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C12N 5/00** (2013.01 - KR NO); **C12N 5/0012** (2013.01 - EP US); **C12N 5/06** (2013.01 - KR); **C12N 5/0602** (2013.01 - KR); **C12N 5/0606** (2013.01 - EP US); **C12N 5/0693** (2013.01 - EP US); **C12N 2502/02** (2013.01 - EP US); **C12N 2533/76** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL HR LT LV MK

DOCDB simple family (publication)
US 2005053586 A1 20050310; AU 2004272987 A1 20050324; AU 2004272987 B2 20070906; AU 2004272987 C1 20080403; CA 2537861 A1 20050324; CA 2537861 C 20120410; CN 101415817 A 20090422; CN 101415817 B 20140806; DK 1660633 T3 20150504; EP 1660633 A2 20060531; EP 1660633 A4 20091202; EP 1660633 B1 20150304; EP 1660633 B9 20150506; ES 2537755 T3 20150611; HK 1126815 A1 20090911; IL 173342 A0 20060611; IL 173342 A 20131128; JP 2007513057 A 20070524; JP 5069466 B2 20121107; KR 101294417 B1 20130808; KR 20060123704 A 20061204; NO 20061478 L 20060602; NO 338248 B1 20160808; NZ 545542 A 20100129; NZ 577865 A 20100430; PL 1660633 T3 20150831; PT 1660633 E 20160118; RU 2006110637 A 20071010; RU 2346040 C2 20090210; US 2006216278 A1 20060928; US 2008020463 A1 20080124; US 2011275155 A1 20111110; US 7838291 B2 20101123; WO 2005026320 A2 20050324; WO 2005026320 A3 20090409

DOCDB simple family (application)
US 65527503 A 20030904; AU 2004272987 A 20040809; CA 2537861 A 20040809; CN 200480023971 A 20040809; DK 04780535 T 20040809; EP 04780535 A 20040809; ES 04780535 T 20040809; HK 09105911 A 20090702; IL 17334206 A 20060124; JP 2006525338 A 20040809; KR 20067003719 A 20040809; NO 20061478 A 20060331; NZ 54554204 A 20040809; NZ 57786504 A 20040809; PL 04780535 T 20040809; PT 04780535 T 20040809; RU 2006110637 A 20040809; US 2004025713 W 20040809; US 201113156659 A 20110609; US 44740506 A 20060605; US 89152607 A 20070810