

Title (en)  
DIFFERENTIATION OF HUMAN MESENCHYMAL STEM CELLS TO CARDIAC PROGENITOR CELLS THAT PROMOTE CARDIAC REPAIR

Title (de)  
DIFFERENZIERUNG MENSCHLICHER MESENCHYMALER STAMMZELLEN ZU DIE HERZREPARATUR FÖRDERNDEN HERZVORLÄUFERZELLEN

Title (fr)  
DIFFÉRENCIATION DE CELLULES SOUCHES MÉSENCHATEUSES DE CELLULES SOUCHES CARDIAQUES QUI FAVORISENT LA CURE CARDIAQUE

Publication  
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Application  
**EP 05812162 A 20050914**

Priority  

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Abstract (en)  
[origin: WO2006032054A2] A method for treating a subject afflicted with a cardiac disorder, in vivo, comprises (i) inducing differentiation of a progenitor cell, in vitro, to a cardiogenic cell; and (ii) administering a therapeutically effective amount of the cardiogenic cell of step (i) to the subject, thereby treating the cardiac disorder in the subject. This invention further provides related articles of manufacture and methods.

IPC 8 full level  
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CPC (source: EP)  
**C12N 5/0657** (2013.01); **C12N 2533/92** (2013.01)

Citation (search report)  

- [E] WO 2006029084 A2 20060316 - CORNELL RES FOUNDATION INC [US], et al
- [X] ASSMUS BIRGIT ET AL: "Transplantation of progenitor cells and regeneration enhancement in acute myocardial infarction (TOPCARE-AMI).", CIRCULATION, vol. 106, no. 24, 10 December 2002 (2002-12-10), pages 3009 - 3017, XP002538784, ISSN: 0009-7322
- [XA] XU WENRONG ET AL: "Mesenchymal stem cells from adult human bone marrow differentiate into a cardiomyocyte phenotype in vitro", EXPERIMENTAL BIOLOGY AND MEDICINE (MAYWOOD), vol. 229, no. 7, July 2004 (2004-07-01), pages 623 - 631, XP002538785, ISSN: 1535-3702
- [XA] WERTMAN BRETT ET AL: "A novel approach to discern the cardiomyogenic capability of human mesenchymal stem cells", JOURNAL OF INVESTIGATIVE MEDICINE, vol. 49, no. 1, January 2001 (2001-01-01), & JOINT REGIONAL MEETING OF THE WESTERN SECTION AMERICAN FEDERATION FOR MEDICAL RESEARCH, THE WESTERN; CARMEL, CALIFORNIA, USA; FEBRUARY 07-10, 2001, pages 67A, XP009120647, ISSN: 1081-5589
- [XA] RANGAPPA S ET AL: "Cardiomyocyte-mediated contact programs human mesenchymal stem cells to express cardiogenic phenotype", JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY 20030701 US, vol. 126, no. 1, 1 July 2003 (2003-07-01), pages 124 - 132, XP002538786, ISSN: 0022-5223
- [A] DOEVEDANS P A ET AL: "Differentiation of cardiomyocytes in floating embryoid bodies is comparable to fetal cardiomyocytes", JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY 2000 GB, vol. 32, no. 5, 2000, pages 839 - 851, XP002538787, ISSN: 0022-2828
- [PA] OSHIMA Y ET AL: "Fate of transplanted bone-marrow-derived mesenchymal cells during osteochondral repair using transgenic rats to simulate autologous transplantation", OSTEOARTHRITIS AND CARTILAGE 200410 GB, vol. 12, no. 10, October 2004 (2004-10-01), pages 811 - 817, XP004573247, ISSN: 1063-4584
- See references of WO 2006032054A2

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