Title (en)

EFFICIENT AND STABLE $I(IN VIVO) GENE TRANSFER TO CARDIOMYOCYTES USING RECOMBINANT ADENO-ASSOCIATED VIRUS VECTORS

Title (de)

EFFIZIENTER UND STABILER -I(IN VIVO) GENTRANSFER AUF CARDIOMYCETEN UNTER VERWENDUNG REKOMBINANTER ADENO-ASSOZIERTER VIRUSVEKTOREN

Title (fr)

TRANSFERT EFFICACE ET STABLE $i(IN VIVO) DE GENES DANS DES CARDIOMYOCYTES A L'AIDE DE VECTEURS VIRAUX ADENO-ASSOCIES DE RECOMBINAISON

Publication

EP 1139751 A4 20030319 (EN)

Application

EP 99967703 A 19991228

Priority

- US 9931093 W 19991228
- US 11392398 P 19981228

Abstract (en)

[origin: WO0038518A1] This invention relates to the use of recombinant adeno-associated virus (rAAV) vectors to transduce cardiomyocytes DOLLAR I(in vivo) by infusing the rAAV into a coronary artery or coronary sinus. rAAV infection is not associated with detectable myocardial inflammation or myocyte necrosis. Thus, rAAV is a useful vector for the stable expression of therapeutic genes in the myocardium and can be used to deliver genes for inducing angiogenesis, inhibiting angiogenesis, stimulating cell proliferation, inhibiting cell proliferation and/or treating or ameliorating other cardiovascular conditions.

IPC 1-7

A01N 43/04; A61K 31/70; C12N 15/00; C12N 15/63

IPC 8 full level

C12N 15/09 (2006.01); **A61K 31/711** (2006.01); **A61K 35/76** (2006.01); **A61K 38/00** (2006.01); **A61K 38/04** (2006.01); **A61K 48/00** (2006.01); **A61P 9/04** (2006.01); **A61P 9/06** (2006.01); **A61P 9/08** (2006.01); **A61P 9/10** (2006.01); **C12N 15/864** (2006.01)

CPC (source: EP)

A61P 9/04 (2018.01); **A61P 9/06** (2018.01); **A61P 9/08** (2018.01); **A61P 9/10** (2018.01); **C12N 15/86** (2013.01); A61K 48/00 (2013.01); C12N 2750/14143 (2013.01)

Citation (search report)

- [Y] WO 9712050 A1 19970403 - UNIV ROCKEFELLER [US], et al
- [Y] KESSLER P D ET AL: "SODIUM BUTYRATE GREATLY ENHANCES THE EFFICIENCY OF VIRAL TRANSDUCTION IN ADULT VENTRICULAR CARDIOMYOCYTES BY ADENO-ASSOCIATED VIRAL VECTORS", CIRCULATION, AMERICAN HEART ASSOCIATION, DALLAS, TX, US, vol. 92, no. 8, 15 October 1995 (1995-10-15), pages 1408, XP000673503, ISSN: 0009-7322

Citation (examination)

- MAEDA ET AL: "Efficient Gene Transfer into Cardiac Myocytes Using Adeno-Associated Virus (AAV) Vectors", J MOL CELL CARDIOL, vol. 30, July 1998 (1998-07-01), pages 1341 - 1348
- See also references of WO 0038518A1

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)

WO 0038518 A1 20000706; **WO 0038518 A9 20020411**; AU 2394200 A 20000731; AU 763049 B2 20030710; CA 2356551 A1 20000706; EP 1139751 A1 20011010; EP 1139751 A4 20030319; JP 2002533359 A 20021008

DOCDB simple family (application)

US 9931093 W 19991228; AU 2394200 A 19991228; CA 2356551 A 19991228; EP 99967703 A 19991228; JP 2000590483 A 19991228