

Title (en)  
SUSPENSION AND CLUSTERING OF HUMAN PLURIPOTENT STEM CELLS FOR DIFFERENTIATION INTO PANCREATIC ENDOCRINE CELLS

Title (de)  
AUFHÄNGUNG UND GRUPPIERUNG MENSCHLICHER PLURIPOTENTER STAMMZELLEN ZUR DIFFERENZIERUNG IN ENDOKRINE PANKREASZELLEN

Title (fr)  
MISE EN SUSPENSION ET REGROUPEMENT DE CELLULES SOUCHES PLURIPOTENTES HUMAINES POUR LA DIFFÉRENCIATION EN CELLULES ENDOCRINES PANCRÉATIQUES

Publication  
**EP 3063269 A4 20170712 (EN)**

Application  
**EP 14859059 A 20140617**

Priority  
• US 201361962158 P 20131101  
• US 201313998974 A 20131230  
• US 2014042796 W 20140617

Abstract (en)  
[origin: WO2015065537A1] The present invention provides methods of preparing aggregated pluripotent stem cell clusters for differentiation. Specifically, the invention discloses methods of differentiating pluripotent cells into beta cell, cardiac cell and neuronal cell lineages using suspension clustering. The methods involve preparing the aggregated cell clusters followed by differentiation of these clusters.

IPC 8 full level  
**A61K 31/41** (2006.01); **C07D 403/00** (2006.01); **C12N 5/02** (2006.01); **C12N 5/071** (2010.01); **C12N 5/0735** (2010.01); **C12N 5/077** (2010.01); **C12N 5/079** (2010.01)

CPC (source: EP KR RU)  
**A61P 1/18** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C12N 5/0075** (2013.01 - KR); **C12N 5/0606** (2013.01 - EP KR RU); **C12N 5/0618** (2013.01 - EP); **C12N 5/0657** (2013.01 - EP RU); **C12N 5/0676** (2013.01 - EP KR); **C12N 2500/02** (2013.01 - EP); **C12N 2501/117** (2013.01 - EP KR); **C12N 2501/15** (2013.01 - EP); **C12N 2501/155** (2013.01 - EP KR); **C12N 2501/16** (2013.01 - EP); **C12N 2501/19** (2013.01 - EP KR); **C12N 2501/385** (2013.01 - EP KR); **C12N 2501/41** (2013.01 - EP KR); **C12N 2501/415** (2013.01 - EP); **C12N 2501/42** (2013.01 - EP); **C12N 2501/727** (2013.01 - EP KR); **C12N 2501/999** (2013.01 - EP KR); **C12N 2506/02** (2013.01 - EP); **C12N 2506/45** (2013.01 - EP); **C12N 2509/00** (2013.01 - EP); **C12N 2513/00** (2013.01 - EP); **C12N 2531/00** (2013.01 - EP)

Citation (search report)  
• [E] WO 2014106141 A1 20140703 - JANSSEN BIOTECH INC [US]  
• [E] WO 2015065524 A2 20150507 - JANSSEN BIOTECH INC [US]  
• See references of WO 2015065537A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2015065537 A1 20150507**; AU 2014342995 A1 20160505; AU 2014342995 B2 20180426; AU 2014342995 C1 20180809; AU 2014343007 A1 20160505; AU 2014343007 B2 20180426; AU 2014343007 C1 20180809; AU 2018208707 A1 20180816; AU 2018208717 A1 20180816; BR 112016009393 A8 20200324; CA 2928639 A1 20150507; CA 2928741 A1 20150507; CN 105683362 A 20160615; CN 105793413 A 20160720; EP 3063268 A2 20160907; EP 3063268 A4 20171129; EP 3063269 A1 20160907; EP 3063269 A4 20170712; JP 2016534731 A 20161110; JP 2017500013 A 20170105; KR 20160079071 A 20160705; KR 20160079072 A 20160705; KR 20180128529 A 20181203; KR 20180130001 A 20181205; MX 2016005657 A 20170105; MX 2016005658 A 20170105; PH 12016500782 A1 20160613; PH 12016500783 A1 20160613; RU 2016121404 A 20171204; RU 2016121404 A3 20180329; RU 2016121409 A 20171204; RU 2016121409 A3 20180329; RU 2689710 C2 20190529; SG 11201603045V A 20160530; SG 11201603047P A 20160530; WO 2015065524 A2 20150507; WO 2015065524 A3 20150813

DOCDB simple family (application)  
**US 2014042796 W 20140617**; AU 2014342995 A 20140521; AU 2014343007 A 20140617; AU 2018208707 A 20180726; AU 2018208717 A 20180726; BR 112016009393 A 20140617; CA 2928639 A 20140521; CA 2928741 A 20140617; CN 201480059902 A 20140617; CN 201480059910 A 20140521; EP 14857034 A 20140521; EP 14859059 A 20140617; JP 2016527338 A 20140521; JP 2016527450 A 20140617; KR 20167014406 A 20140617; KR 20167014409 A 20140521; KR 20187034291 A 20140521; KR 20187034483 A 20140617; MX 2016005657 A 20140521; MX 2016005658 A 20140617; PH 12016500782 A 20160427; PH 12016500783 A 20160427; RU 2016121404 A 20140617; RU 2016121409 A 20140521; SG 11201603045V A 20140521; SG 11201603047P A 20140617; US 2014038993 W 20140521