

Title (en)

METHOD FOR THE IN VITRO PREPARATION OF DERMAL PAPILLA AND HAIR FOLLICLE EQUIVALENTS

Title (de)

VERFAHREN ZUR IN-VITRO-HERSTELLUNG VON HAUTPAPILLEN- UND HAARFOLLIKELÄQUIVALENSEN

Title (fr)

PROCÉDÉ DE PRÉPARATION IN VITRO D'ÉQUIVALENTS DE PAPILLE DERMIQUE ET DE FOLLICULE PILEUX

Publication

EP 3704226 A1 20200909 (FR)

Application

EP 18803336 A 20181030

Priority

- FR 1760242 A 20171030
- EP 2018079758 W 20181030

Abstract (en)

[origin: WO2019086485A1] The invention concerns a method for the in vitro preparation of a dermal papilla equivalent from fibroblasts from the dermal papilla and/or the connective tissue sheath; a method for the in vitro preparation of a hair follicle equivalent by culturing proliferative epithelial cells on said dermal papilla obtained in this way; the in vitro equivalents of dermal papilla and hair follicles produced by the abovementioned methods, the uses thereof for treating alopecia and for evaluating the effect of cosmetic, pharmaceutical or dermatological products.

IPC 8 full level

C12N 5/071 (2010.01)

CPC (source: EP KR US)

A61K 35/36 (2013.01 - US); **C12N 5/0625** (2013.01 - EP KR US); **C12N 5/0628** (2013.01 - EP KR US); **C12N 5/0697** (2013.01 - US);
C12N 5/0698 (2013.01 - EP KR); **G01N 33/5044** (2013.01 - US); **C12N 2500/05** (2013.01 - US); **C12N 2500/10** (2013.01 - EP KR);
C12N 2500/32 (2013.01 - EP KR US); **C12N 2500/34** (2013.01 - US); **C12N 2500/38** (2013.01 - EP KR US); **C12N 2500/90** (2013.01 - US);
C12N 2501/31 (2013.01 - KR); **C12N 2501/33** (2013.01 - EP US); **C12N 2501/39** (2013.01 - EP KR US); **C12N 2501/999** (2013.01 - US);
C12N 2502/09 (2013.01 - EP KR US); **C12N 2502/094** (2013.01 - US); **C12N 2503/06** (2013.01 - EP KR US); **C12N 2506/1307** (2013.01 - US);
C12N 2513/00 (2013.01 - US)

Citation (search report)

See references of WO 2019086485A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3072972 A1 20190503; FR 3072972 B1 20230310; BR 112020008348 A2 20201103; CN 111417717 A 20200714; EP 3704226 A1 20200909;
JP 2021500897 A 20210114; JP 7005754 B2 20220124; KR 102390235 B1 20220422; KR 20200073281 A 20200623;
US 2020255801 A1 20200813; WO 2019086485 A1 20190509

DOCDB simple family (application)

FR 1760242 A 20171030; BR 112020008348 A 20181030; CN 201880077456 A 20181030; EP 18803336 A 20181030;
EP 2018079758 W 20181030; JP 2020523695 A 20181030; KR 20207015309 A 20181030; US 201816760109 A 20181030