

Title (en)

IN-VITRO METHOD FOR IDENTIFYING AND ANALYZING ION CHANNELS AND/OR WATER CHANNELS AND/OR RECEPTORS OF SIGNAL TRANSDUCTION USING A THREE-DIMENSIONAL CELL CULTURE MODEL OF THE SWEAT GLAND

Title (de)

IN-VITRO VERFAHREN ZUR IDENTIFIZIERUNG UND ANALYSE VON IONENKANÄLEN UND/ODER WASSERKANÄLEN UND/ODER REZEPTOREN DER SIGNALTRANSDUKTION UNTER VERWENDUNG EINES DREIDIMENSIONALEN ZELLKULTURMODELLS DER SCHWEISSDRÜSE

Title (fr)

PROCÉDÉ IN VITRO POUR L'IDENTIFICATION ET L'ANALYSE DE CANAUX IONIQUES ET/OU DE CANAUX HYDRIQUES ET/OU DE RÉCEPTEURS DE LA TRANSDUCTION DU SIGNAL AU MOYEN D'UN MODÈLE DE CULTURE CELLULAIRE TRIDIMENSIONNEL DE LA GLANDE SUDORIPARE

Publication

EP 3510405 A1 20190717 (DE)

Application

EP 17752055 A 20170803

Priority

- DE 102016217182 A 20160909
- EP 2017069599 W 20170803

Abstract (en)

[origin: WO2018046197A1] The invention relates to an in-vitro method for identifying and analyzing ion channels and/or water channels and/or receptors of signal transduction. According to this method, a three-dimensional sweat gland model with 500 to 500000 sweat gland cells and a diameter of 100 to 6000 µm is made available and then ion channels and/or water channels and/or receptors of the signal transduction are identified in this model and analyzed. Preferably, in another method step c) the influence of test substances on the proteins previously identified in step b) is examined. Since the three-dimensional sweat gland models used in step a) have differently differentiated cells and simulate the in-vivo situation well, the measured data obtained using the in-vitro method according to the invention can be applied to the in-vivo situation without difficulty.

IPC 8 full level

G01N 33/68 (2006.01)

CPC (source: EP US)

C12N 5/0629 (2013.01 - US); **C12N 5/0633** (2013.01 - EP US); **G01N 33/5064** (2013.01 - US); **G01N 33/5082** (2013.01 - US); **G01N 33/6881** (2013.01 - EP US); **C12N 2503/02** (2013.01 - EP US); **C12N 2503/06** (2013.01 - US); **C12N 2513/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2018046197A1

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)

WO 2018046197 A1 20180315; DE 102016217182 A1 20180315; EP 3510405 A1 20190717; US 2019195889 A1 20190627

DOCDB simple family (application)

EP 2017069599 W 20170803; DE 102016217182 A 20160909; EP 17752055 A 20170803; US 201716331483 A 20170803