

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 June 2022 (02.06.2022)



(10) International Publication Number
WO 2022/114955 A1

(51) International Patent Classification:
C12N 5/077 (2010.01) C12N 5/00 (2006.01)

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:
PCT/NL2021/050718

Published:
— with international search report (Art. 21(3))

(22) International Filing Date:
25 November 2021 (25.11.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2026978 25 November 2020 (25.11.2020) NL

(71) Applicant: MOSA MEAT B.V. [NL/NL]; Watermolen 28,
6229 PM Maastricht (NL).

(72) Inventors: CRUZ, Helder; c/o Watermolen 28, 6229 PM
Maastricht (NL). FLACK, Joshua Edwin; c/o Watermolen
28, 6229 PM Maastricht (NL). FURQUIM, Carolina;
c/o Watermolen 28, 6229 PM Maastricht (NL). KLEV-
ERNIC, Iva; c/o Watermolen 28, 6229 PM Maastricht
(NL). MELZENER, Lea; c/o Watermolen 28, 6229 PM
Maastricht (NL). MESSMER, Tobias; c/o Watermolen 28,
6229 PM Maastricht (NL). POST, Mark; c/o Watermolen
28, 6229 PM Maastricht (NL). VAN ESSEN, Anon; c/o
Watermolen 28, 6229 PM Maastricht (NL).

(74) Agent: WITMANS, H.A.; V.O., P.O. Box 87930, 2508 DH
Den Haag (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(54) Title: SERUM-FREE MEDIUM FOR DIFFERENTIATION OF A PROGENITOR CELL

(57) Abstract: The invention relates inter alia to a method for differentiating a muscle progenitor cell, comprising the step of: - culturing a muscle progenitor cell in a serum-free medium for differentiating a muscle progenitor cell, wherein said serum-free medium comprises - at least one differentiation inducer selected from the group consisting of a lysophosphatidic acid receptor 1 (LPA1) agonist, a lysophosphatidic acid receptor 3 (LPA3) agonist, an oxytocin receptor (OXTR) agonist, a glucagon receptor (GCGR) agonist, a lactate and a Notch signaling pathway inhibitor.

WO 2022/114955 A1