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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 June 2020 (18.06.2020)

WIPO | PCT

(10) International Publication Number
WO 2020/120664 A1

(51) International Patent Classification:
C12N 5/071 (2010.01)

(21) International Application Number:
PCT/EP2019/084868

(22) International Filing Date:
12 December 2019 (12.12.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/EP2018/085024
14 December 2018 (14.12.2018) EP

(71) Applicant: **PROMETHERA BIOSCIENCES S.A./N.V.** [BE/BE]; Watson & Crick Hill, Rue Granbonpré 11, 1435 Mont-Saint-Guibert (BE).

(72) Inventors: **TCHELINGERIAN, Jean-Leon**; 5, rue de l'Ambroisie, 75012 Paris (FR). **CORRITORE, Elisa**; Avenue JP Rullens 29, 1200 Brussels (BE). **MAZZA, Giuseppe**; 4C Shirland Mews, Flat 3, London Greater London W93DY (GB). **BELMONTE, Nathalie**; 96, Corniche Fleurie, Le Plein Ciel, 06200 Nice (FR). **SOKAL, Etienne**; Edmond Vandervaerenstraat 30/A, 1560 Hoeilaart (BE).

(74) Agent: **BRANTSANDPATENTS**; Pauline Van Pottelsberghelaan 24, 9051 Sint-Denijs-Westrem (BE).

(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, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:
— *of inventorship (Rule 4.17(iv))*

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

(54) **Title:** CELL COMPOSITION COMPRISING LIVER PROGENITOR CELLS EXPRESSING HLA-E

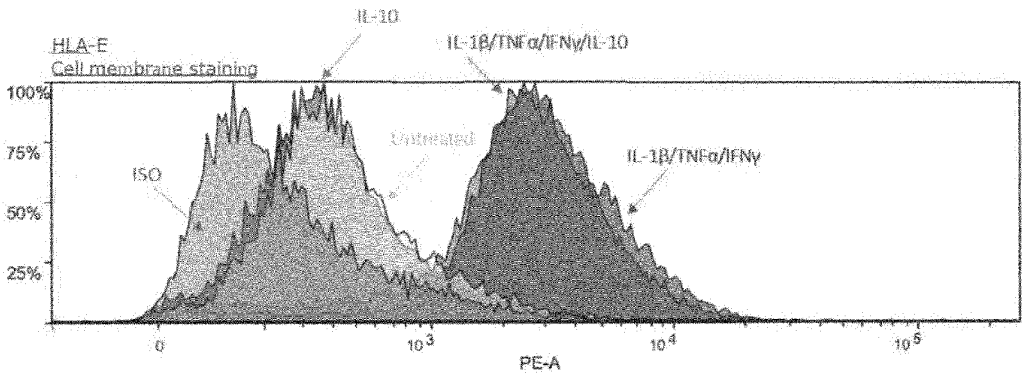


FIGURE 1

(57) **Abstract:** The current invention concerns isolated liver progenitor cells, cell lines thereof, cell populations comprising such and compositions comprising such wherein the liver progenitor cells are HLA-E positive. In addition, the invention concerns methods of preparing these liver progenitor cells.

WO 2020/120664 A1