

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
05 May 2022 (05.05.2022)



(10) International Publication Number
WO 2022/094628 A3

- (51) **International Patent Classification:**
C12N 5/071 (2010.01)
- (21) **International Application Number:**
PCT/US2021/072165
- (22) **International Filing Date:**
01 November 2021 (01.11.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/108,666 02 November 2020 (02.11.2020) US
63/222,953 16 July 2021 (16.07.2021) US
- (71) **Applicant: CONCEPTION BIOSCIENCES, INC.**
[US/US]; 626 Bancroft Way, Suite A, Berkeley, California
94710 (US).
- (72) **Inventors: BARGAJE, Rishikesh;** 626 Bancroft Way,
Suite A, Berkeley, California 94710 (US). **SERES, Kar-**
men Bianka; 626 Bancroft Way, Suite A, Berkeley, Cali-
fornia 94710 (US). **HURTADO-GONZALEZ, Pablo;** 626
Bancroft Way, Suite A, Berkeley, California 94710 (US).
MILLER, Alyssa; 626 Bancroft Way, Suite A, Berkeley,
California 94710 (US).
- (74) **Agent: POTTER, Karen et al.;** Morrison & Foerster LLP,
12531 High Bluff Drive, Suite 100, San Diego, California
92130-2040 (US).
- (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,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**
21 July 2022 (21.07.2022)

(54) **Title:** IN VITRO DERIVATION OF GONADAL SOMATIC CELLS

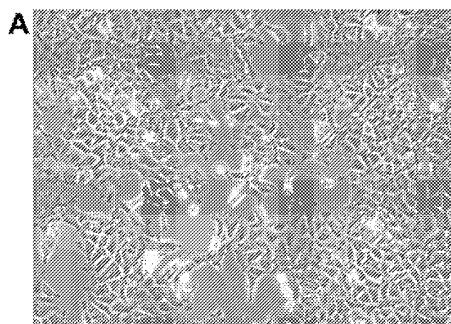


FIG. 1

(57) **Abstract:** Provided herein are methods of generating gonadal cell populations such as ovarian somatic cells from pluripotent stem cells. Also included are gonadal cell populations, as well as intermediate cell populations generated therein.



WO 2022/094628 A3