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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 January 2008 (10.01.2008)

PCT

(10) International Publication Number
WO 2008/005520 A3

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

(21) International Application Number:
PCT/US2007/015554

(22) International Filing Date: 6 July 2007 (06.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/806,679 6 July 2006 (06.07.2006) US

(71) Applicant *(for all designated States except US)*: **ORGANOGENESIS INC.** [US/US]; 150 Dan Road, Canton, MA 02021 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **RONFARD, Vincent** [FR/US]; 67 Cherry Place, Newton, MA 02465 (US). **O'REILLY, Christopher, S.** [US/US]; 81 South Main Street, Middleboro, MA 02346 (US).

(74) Agents: **ARNOLD, Beth, E.** et al.; Foley Hoag, LLP, Seaport World Trade Center West, 155 Seaport Boulevard, Boston, MA 02210-2600 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**
— *with international search report*

(88) Date of publication of the international search report:
2 May 2008

WO 2008/005520 A3

(54) Title: TEMPERATURE-RESPONSIVE MICROCARRIER

(57) Abstract: The invention relates to compositions and methods useful for cell culture in which cell adherence and release of cultured cells can be performed in a temperature-responsive manner.