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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 July 2010 (01.07.2010)

PCT

(10) International Publication Number
WO 2010/075459 A1

(51) International Patent Classification:
C12Q 1/68 (2006.01)

(21) International Application Number:
PCT/US2009/069317

(22) International Filing Date:
22 December 2009 (22.12.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/140,063	22 December 2008 (22.12.2008)	US
61/166,188	2 April 2009 (02.04.2009)	US
61/231,232	4 August 2009 (04.08.2009)	US

(71) Applicant *(for all designated States except US)*: **CELULA, INC.** [US/US]; 7360 Carroll Roard, Suite 200, San Diego, CA 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **OLIPHANT, Arnold, R.** [US/US]; 11029 Red Robin Place, San Diego, CA 92126 (US). **KRUMMEL, Kurt, A.** [US/US]; 3586 Caminito El Rincon, #114, San Diego, CA 92130 (US). **ZHANG, Haichuan** [US/US]; 11881 Westview Parkway, San Diego, CA 92126 (US). **KATZ, Andrew, S.** [US/US]; 6911 Via Valverde, La Jolla, CA 92037 (US).

(74) Agent: **HART, Daniel**; Knobbe Martens Olson & Bear LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614 (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, BR, BW, BY, BZ, CA, CH, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

WO 2010/075459 A1

(54) Title: METHODS AND GENOTYPING PANELS FOR DETECTING ALLELES, GENOMES, AND TRANSCRIPTOMES

(57) Abstract: Disclosed are methods and genotyping panels for detecting alleles, genomes, and transcriptomes in admixtures of two individuals.