

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2019/227015 A8

(43) International Publication Date
28 November 2019 (28.11.2019)

WIPO | PCT

(51) International Patent Classification:
C12Q 1/6883 (2018.01)

Published:

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

(21) International Application Number:
PCT/US2019/033964

(48) Date of publication of this corrected version:

27 February 2020 (27.02.2020)

(22) International Filing Date:
24 May 2019 (24.05.2019)

(15) Information about Correction:

see Notice of 27 February 2020 (27.02.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/676,436 25 May 2018 (25.05.2018) US
62/848,219 15 May 2019 (15.05.2019) US

(71) Applicant: **ILLUMINA, INC.** [US/US]; 5200 Illumina Way, San Diego, CA 92122 (US).

(72) Inventors: **MUNCHEL, Sarah, E.**; 5200 Illumina Way, San Diego, CA 92122 (US). **KAPER, Fiona**; 5200 Illumina Way, San Diego, CA 92122 (US). **KINNINGS, Sarah**; 5200 Illumina Way, San Diego, CA 92122 (US). **ROHRBACK, Suzanne**; 5200 Illumina Way, San Diego, CA 92122 (US). **RANDISE-HINCHLIFF, Carlo**; 5200 Illumina Way, San Diego, CA 92122 (US).

(74) Agent: **JOHNSON, Nancy, A.**; MUETING, RAASCH & GEBHARDT, P.A., P.O. Box 581336, Minneapolis, MN 55458-1336 (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, 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).

(54) Title: CIRCULATING RNA SIGNATURES SPECIFIC TO PREECLAMPSIA

(57) Abstract: The present invention includes methods and materials for use in the detection preeclampsia and/or determining an increased risk for preeclampsia in a pregnant female, the method including identifying in a biosample obtained from the pregnant women a plurality of circulating RNA (C-RNA) molecules.

WO 2019/227015 A8