

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 March 2020 (19.03.2020)



(10) International Publication Number
WO 2020/056347 A1

(51) International Patent Classification:

C12Q 1/6869 (2018.01) *G06F 19/18* (2011.01)
C12Q 1/6827 (2018.01) *G06F 19/20* (2011.01)
C12Q 1/6886 (2018.01) *G06F 19/22* (2011.01)

(21) International Application Number:

PCT/US2019/051138

(22) International Filing Date:

13 September 2019 (13.09.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/731,718 14 September 2018 (14.09.2018) US

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(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,

(54) Title: METHODS AND SYSTEMS FOR ASSESSING MICROSATELLITE INSTABILITY

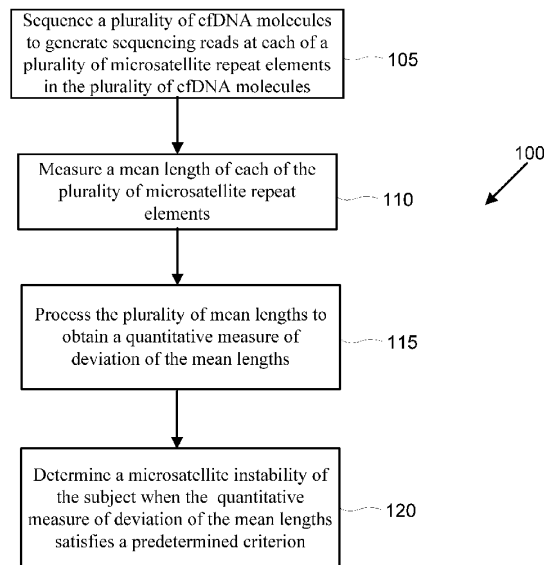


FIG. 1

(57) Abstract: The invention disclosed herein generally relates to methods of assessing microsatellite instability in a subject. In an aspect, the present disclosure provides a computer-implemented method of assessing microsatellite instability of a subject, comprising: obtaining a quantitative measure of a plurality of microsatellite repeat elements from a blood sample of a subject; processing the plurality of quantitative measures to obtain a statistical measure of deviation of the plurality of quantitative measures; and detecting a presence of the microsatellite instability (MSI) of the subject when the statistical measure of deviation of the plurality of quantitative measures satisfies a predetermined criterion, or detecting an absence of the microsatellite instability (MSI) of the subject when the statistical measure of deviation of the plurality of quantitative measures does not satisfy the predetermined criterion.

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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,
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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).

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))