

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
02 June 2022 (02.06.2022)



(10) International Publication Number
WO 2022/112300 A1

(51) International Patent Classification:

C12Q 1/6806 (2018.01) *G01N 33/53* (2006.01)
C12N 15/10 (2006.01) *C12Q 1/6804* (2018.01)

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(21) International Application Number:

PCT/EP2021/082775

(22) International Filing Date:

24 November 2021 (24.11.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2018503.9 25 November 2020 (25.11.2020) GB

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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, 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).

(54) Title: ANALYTE DETECTION METHOD EMPLOYING CONCATEMERS

(57) Abstract: The present disclosure and invention provides a method of detecting DNA sequences from multiple pools. In the method, the pools are combined, DNA concatemers are generated by joining together a single DNA molecule from each pool in a pre-defined order, and the concatemers are then sequenced. By sequencing each concatemer, multiple DNA sequences are detected, and each DNA sequence detected can be assigned to its pool of origin by its location in the concatemer. The method thereby enables the specific detection of DNA sequences from each of multiple pools. A kit suitable for performing the method is also provided.



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