

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 October 2023 (19.10.2023)



(10) International Publication Number
WO 2023/200406 A2

(51) International Patent Classification:
Not classified

(21) International Application Number:
PCT/SG2023/050254

(22) International Filing Date:
14 April 2023 (14.04.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10202203891U 14 April 2022 (14.04.2022) SG

(71) Applicant: NATIONAL UNIVERSITY OF SINGAPORE [SG/SG]; 21 Lower Kent Ridge Road, Singapore 119077 (SG).

(72) Inventors: CHANG, Matthew Wook; c/o National University of Singapore, Yong Loo Lin School of Medicine, 21 Lower Kent Ridge Road, Singapore 119077 (SG). AGGARWAL, Nikhil; c/o National University of Singapore, Yong Loo Lin School of Medicine, 21 Lower Kent Ridge Road, Singapore 119077 (SG). HWANG, In Young; c/o National University of Singapore, Yong Loo Lin School of Medicine, 21 Lower Kent Ridge Road, Singapore 119077 (SG). LING, Hua; c/o National University of Singapore, Yong Loo Lin School of Medicine, 21 Lower Kent Ridge Road, Singapore 119077 (SG). FOO, Jee Loon; c/o National University of Singapore, Yong Loo Lin School of Medicine, 21 Lower Kent Ridge Road, Singapore 119077 (SG).

(74) Agent: DAVIES COLLISON CAVE ASIA PTE. LTD.; 10 Collyer Quay #07-01, Ocean Financial Centre, Singapore 049315 (SG).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))
— with sequence listing part of description (Rule 5.2(a))

WO 2023/200406 A2

(54) Title: METHOD OF DETECTING A POLYNUCLEOTIDE ANALYTE

(57) Abstract: The invention relates to generally to the field of nucleic acid detection. In particular, the specification teaches a method of detecting a polynucleotide analyte in a sample.