

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
09 February 2023 (09.02.2023)



(10) International Publication Number
WO 2023/012272 A1

(51) International Patent Classification:
C12Q 1/6841 (2018.01)

(21) International Application Number:
PCT/EP2022/071935

(22) International Filing Date:
04 August 2022 (04.08.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/230,247 06 August 2021 (06.08.2021) US

(71) Applicant: **RESOLVE BIOSCIENCES GMBH**
[DE/DE]; Alfred-Nobel-Str. 10 Creative Campus Mon-
heim, Gebäude A03, 40789 Monheim am Rhein (DE).

(72) Inventors: **KORFHAGE, Christian**; Sepp-Herberger Str.
6c, 40764 Langenfeld (DE). **REINECKE, Frank**; Heide-
hang 9, 45134 Essen (DE). **GEIPEL, Andreas**; Weimarer
Str. 47, 40822 Mettmann (DE).

(74) Agent: **ROTH, Andy Stefan**; Kaistr. 5, 40221 Düsseldorf
(DE).

(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, 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).

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))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: METHOD FOR DETECTING AN ANALYTE IN A PATHOGEN-COMPRISING SAMPLE

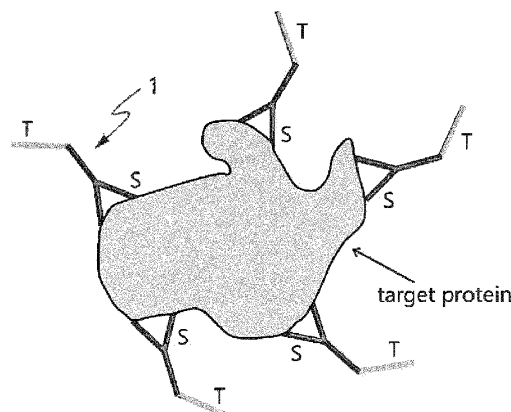


FIG. 2

(57) Abstract: The present disclosure pertains to novel multiplex methods and kits for detecting different analytes in a sample in parallel by sequential signal-encoding of said analytes. In particular, the present disclosure pertains to a method that results in inactivation of pathogens for in-situ spatial transcriptomics (e.g. Molecular Cartography) without the step DNA or RNA preparation prior to analysis.



WO 2023/012272 A1