

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
27 January 2022 (27.01.2022)



(10) International Publication Number
WO 2022/018777 A1

(51) International Patent Classification:
C12Q 1/6886 (2018.01)

(21) International Application Number:
PCT/IT2021/050222

(22) International Filing Date:
22 July 2021 (22.07.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
102020000017896 23 July 2020 (23.07.2020) IT

(71) Applicants: **EUROFINS GENOMA GROUP SRL**
[IT/IT]; Via Castel Giubileo 11, 00138 ROMA (RM) (IT).
ISTITUTI FISIOTERAPICI OSPITALIERI [IT/IT];
Via Elia Chianesi, 53, 00144 ROMA (RM) (IT).

(72) Inventors: **GANCI, Federica**; c/o Istituti Fisioterapici
Ospitalieri, Via Elia Chianesi, 53, 00144 Roma (RM)
(IT). **SPINELLA, Francesca**; c/o Eurofins Genoma Group
S.R.L., Via Castel Giubileo, 11, 00138 Roma (RM) (IT).
FIORENTINO, Francesco; c/o Eurofins Genoma Group
S.R.L., Via Castel Giubileo, 11, 00138 Roma (RM) (IT).
BLANDINO, Giovanni; c/o Istituti Fisioterapici Ospital-
ieri, Via Elia Chianesi, 53, 00144 Roma (RM) (IT).

(74) Agent: **GITTO, Serena et al.**; c/o Barzanò & Zanardo Ro-
ma S.p.A., Via Piemonte 26, 00187 ROMA (IT).

(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: METHOD FOR *IN VITRO* DIAGNOSIS OF HEAD AND NECK CANCER AND RELATED KIT

(57) Abstract: The present invention concerns a method of identification of head and neck cancer in tissue or liquid samples in order to provide a diagnosis of primitive cancer, of cancer recurrences and of residual cancer cells in the resection margins of a surgical removal of the head and neck cancer.

WO 2022/018777 A1