



(51) International Patent Classification:
C12Q 1/68 (2006.01)

(21) International Application Number:
PCT/EP2010/053152

(22) International Filing Date:
12 March 2010 (12.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09004687.1 31 March 2009 (31.03.2009) EP

(71) Applicant (for all designated States except US): **ORIDIS BIOMED FORSCHUNGS- UND ENTWICKLUNGS GMBH** [AT/AT]; Stiftingtalstrasse 3-5, A-8010 Graz (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **OTTE, Marcus** [DE/AT]; Technikerstrasse 9, A-8010 Graz (AT). **STEFAN, Martina** [AT/AT]; Wienerstrasse 5, A-8020 Graz (AT).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

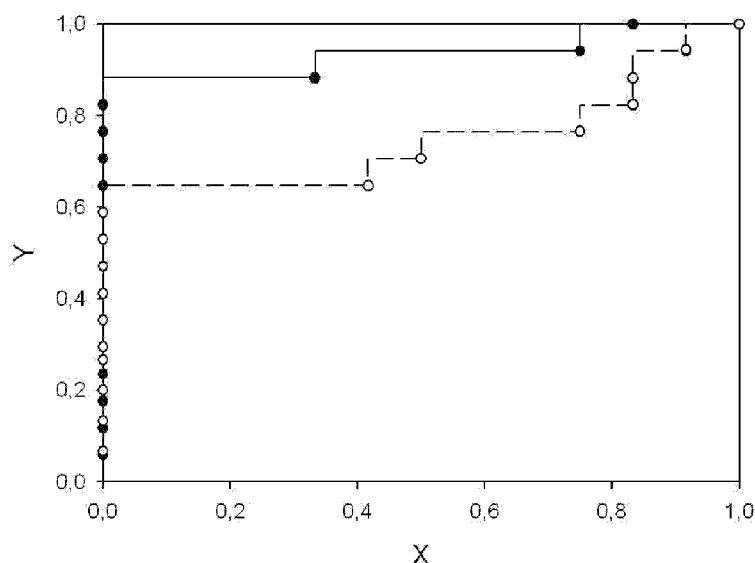
Published:

— with international search report (Art. 21(3))

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

(54) Title: METHOD FOR DIAGNOSIS OF CANCER AND MONITORING OF CANCER TREATMENTS

Figure 3



(57) Abstract: The present invention relates to a method for cancer diagnosis and for monitoring cancer treatments based on the analysis of the DNA fragmentation pattern of repetitive elements (preferably LINE1) or multi copy genes (preferably U1 RNA) identified in body fluid samples isolated from cancer patients.