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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 January 2012 (19.01.2012)

PCT

(10) International Publication Number
WO 2012/008839 A3

(51) International Patent Classification:
G01N 33/48 (2006.01)

(21) International Application Number:
PCT/NL2011/050518

(22) International Filing Date:
15 July 2011 (15.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/364,831	16 July 2010 (16.07.2010)	US
10169897.5	16 July 2010 (16.07.2010)	EP
11158912.3	18 March 2011 (18.03.2011)	EP
11167973.4	27 May 2011 (27.05.2011)	EP

(71) Applicant *(for all designated States except US)*: **STICHTING VU-VUMC** [NL/NL]; De Boelelaan 1105, NL-1081 HV Amsterdam (NL).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WÜRDINGER, Thomas** [NL/NL]; c/o VU&VUMC, De Boelelaan 1085, Kamer F-545, NL-1081 HV Amsterdam (NL). **NILSSON, Rolf Jonas** [SE/NL]; c/o VU&VUMC, De Boelelaan 1085, kamer F-545, NL-1081 HV Amsterdam (NL).

(74) Agent: **JANSEN, C.M.**; Vereenigde, Johan de Wittlaan 7, NL-2517 JR Den Haag (NL).

(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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, 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))*

(88) Date of publication of the international search report:
1 March 2012

WO 2012/008839 A3

(54) Title: A METHOD OF ANALYSING A BLOOD SAMPLE OF A SUBJECT FOR THE PRESENCE OF A DISEASE MARKER

(57) Abstract: The present invention relates to a method of analysing a blood sample of a subject for the presence of a disease marker, said method comprising the steps of a) extracting nucleic acid from anucleated blood cells in said blood sample to provide an anucleated blood cells-extracted nucleic acid fraction, and b) analysing said anucleated blood cells-extracted nucleic acid fraction for the presence of a disease marker, wherein said disease marker is a disease-specific mutation in a gene of a cell of said subject, or wherein said disease marker is a disease-specific expression profile of genes of a cell of said subject.