



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

(21) International Application Number:

PCT/EP2011/070748

(22) International Filing Date:

23 November 2011 (23.11.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10192405.8 24 November 2010 (24.11.2010) EP

(71) Applicant (for all designated States except US): **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOBADILLA, Maria** [ES/FR]; 50b, rue de Village-Neuf, F-68128 Rosenau (FR). **DELMAR, Paul** [FR/CH]; Hammerstrasse 89, CH-4057 Basel (CH). **DUCHATEAU-NGUYEN, Guillemette** [FR/FR]; 11, rue Bellevue, F-68400 Riedisheim (FR). **LAZIC, Stanley** [CA/CH]; Gerbergaesslein 2, CH-4051 Basel (CH). **MAGNONE, Maria,**

Chiara [IT/CH]; Kohlenberggasse 24, CH-4051 Basel (CH). **NGUYEN, Tri, Quang** [US/DE]; Breslauer Strasse 7, 79576 Weil am Rhein (DE).

(74) Agent: **BRODBECK, Michel**; Grenzacherstrasse 124, CH-4070 Basel (CH).

(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, QA, RO, RS, RU, RW, 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, RW, 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,

[Continued on next page]

(54) Title: METHODS FOR DETECTING LOW GRADE INFLAMMATION

Obese and Lean Subjects Cluster Apart from
Each Other Based on Gene Expression Patterns

BMI $\leq$ 25: n=15, range = (17.5 to 24.5)
BMI > 30: n=13, range = (30.8 to 49.1)

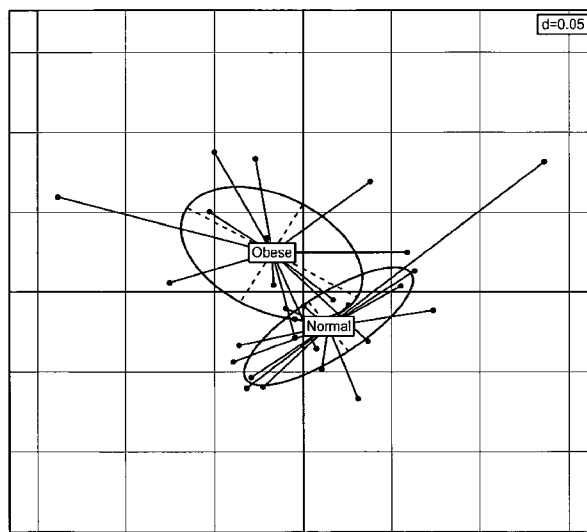


FIG. 1

(57) Abstract: The present invention relates to methods for detecting the presence of low grade inflammation in a patient.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, —
GW, ML, MR, NE, SN, TD, TG).

*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))*

Published:

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