

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 August 2003 (28.08.2003)

PCT

(10) International Publication Number
WO 2003/070979 A3

- (51) International Patent Classification⁷: **C12Q 1/68**, G01N 33/574
- (21) International Application Number: PCT/GB2003/000755
- (22) International Filing Date: 20 February 2003 (20.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0203998.0 20 February 2002 (20.02.2002) GB
2002-130927 2 May 2002 (02.05.2002) JP
- (71) Applicant (for all designated States except US): **NCC TECHNOLOGY VENTURES PTE LIMITED** [SG/SG]; 11 Hospital Drive, 169610 Singapore (SG).
- (71) Applicant (for MN only): **CRIPPS, Joanna, E.** [GB/GB]; Mewburn Ellis, 1 Redcliff Street, Bristol, Bristol BS1 6NP (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **TAN, Patrick** [SG/SG]; National Cancer Centre, 11 Hospital Drive, 169610 Singapore (SG). **KUN, Yu** [SG/SG]; National Cancer Centre, 11 Hospital Drive, 169610 Singapore (SG). **AGGARWAL, Amit** [SG/SG]; National Cancer Centre, 11 Hospital Drive, 169610 Singapore (SG). **OOI, Chia, Huey** [SG/SG]; National Cancer Centre, 11 Hospital Drive, 169610 Singapore (SG).
- (74) Agents: **CRIPPS, Joanna, E.** et al.; Mewburn Ellis, York House, 23 Kingsway, London, Greater London WC2B 6HP (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 18 March 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MATERIALS AND METHODS RELATING TO CANCER DIAGNOSIS

(57) Abstract: The invention provides a number of genetic identifiers (genesets) which may be used as diagnostic tools to determine the presence or risk of breast cancer in a patient. The invention also provides genesets which may be used to classify a breast tumour cell as to its molecular subgroup. Each of the identified genesets may be used to product customised specific nucleic acid microarrays for use in diagnosis and classification of breast tumour cells.

WO 2003/070979 A3