9805045-3

IPOS copy!

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C12Q 1/68, C12N 5/00, G01N 33/543 — A1

(11) International Publication Number: **WO 97/36004**

(43) International Publication Date: 2 October 1997 (02.10.97)

(21) International Application Number: PCT/NO97/00083

(22) International Filing Date: 25 March 1997 (25.03.97)

(30) Priority Data:
961221 26 March 1996 (26.03.96) NO

(71)(72) Applicant and Inventor: FODSTAD, Øystein [NO/NO]; Frits Kiærs vei 28, N-0383 Oslo (NO).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: ENGEBRÅTEN, Olav [NO/NO]; Hancborgsveien 43A, N-1470 Lørenskog (NO). REE, Anne, Hansen [NO/NO]; Kirkeveien 87A, N-1344 Haslum (NO). HOVIG, Johannes, Eivind [NO/NO]; Sognsveien 31, N-0851 Oslo (NO).

(74) Agent: ONSAGERS PATENTKONTOR A/S; P.O. Box 265 Sentrum, N-0103 Oslo (NO).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: IMMUNO-MAGNETIC CELL SEPARATION USED IN IDENTIFICATION OF GENES ASSOCIATED WITH SITE-PREFERENCED CANCER METHASTASIS FORMATION

(57) Abstract

Method for identifying genes with site specific or site preferred expression in target cells that are initially detected and isolated by repeated immuno-magnetic procedures. The purified target cells are then exposed to known cloning procedures. Preferred target cells are malignant cells, e.g. metastatic cells. Gene cloning methods may include the differential display or substractive hybridization approaches.