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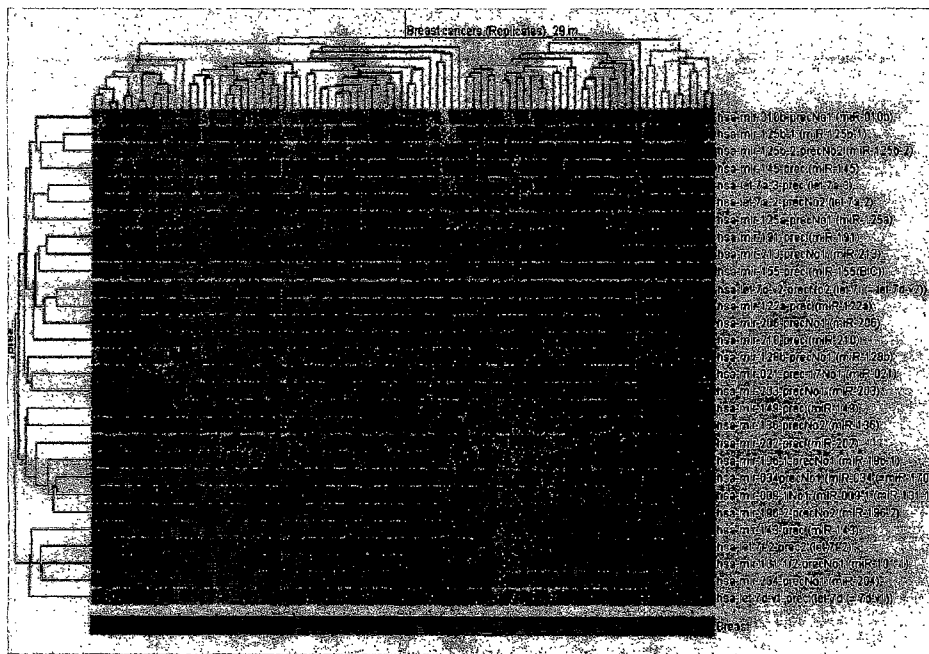
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(54) Title: MICRO-RNA-BASED METHODS AND COMPOSITIONS FOR THE DIAGNOSIS, PROGNOSIS AND TREATMENT OF BREAST CANCER



(57) Abstract: The present invention provides novel methods and compositions for the diagnosis, prognosis and treatment of breast cancer. The invention also provides methods of identifying anti-breast cancer agents.

WO 2007/016548 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/29889

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8): C12Q 1/68 (2007.01)
 USPC: 435/6
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 USPC: 435/6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 PubWEST(PGPB,USPT,USOC,EPAB,JPAB); Google SCHOLAR/PATENT; PubMed: microRNA (and variations thereof), breast cancer, cancer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	LU et al. Micro RNA expression profiles classify human cancers. Nature 9 June 2004 (09.06.2004) 435:835-838. abstract; Fig. 1; Fig. 2; Fig. 3; pg 834, col 2; pg 835, col 2; pg 837, col. 2,	1, 3-21, 23, 24, 26, 30-32, 35 and 36 ----- 2, 22 and 25
X --- Y	CALIN et al. Human microRNA genes are frequently located at fragile sites and genomic regions involved in cancers. Proc. Natl. Acad. Sci. USA. 2 March 2004 (02.03.2004) 101 (9):2999-3004; Table 2	27-29, 33 and 34 ----- 2, 22 and 25
X, E	US 2006/0292616 A1 (NEELY et al.) 28 December 2006 (28.12.2006)	1-36
X, E	US 2006/0189557 A1 (SLACK et al.) 24 August 2006 (24.08.2006)	1-36
X, P	US 2006/0105360 A1 (CROCE et al.) 18 May 2006 (18.05.2006)	1-36
X, E	US 2006/0185027 A1 (BARTEL et al.) 17 August 2006 (17.08.2006)	1-36
X, P	IORIO et al. MicroRNA Gene Expression Deregulation in Human Breast Cancer. Cancer Res. 15 August 2005 (15.08.2005) 65(16):7065-7070	1-36
X, P	MATTIE et al. Optimized high-throughput microRNA expression profiling provides novel biomarker assessment of clinical prostate and breast cancer biopsies. Molecular Cancer. 19 June 2006 (19.06.2006) 5:24-37	1-36

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	ZHANG et al. microRNAs exhibit high frequency genomic alterations in human cancer. Proc. Natl. Acad. Sci. USA. 13 June 2006 (13.06.2006) 103(24):9136-9141.	1-36
X, P	CALIN et al. A MicroRNA Signature Associated with Prognosis and Progression in Chronic Lymphocytic Leukemia. N. Engl. J. Med. 27 October 2005 (27.10.2005) 353:1793-1801.	1-36