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(54) Title: MICRORNA EXPRESSION ABNORMALITIES IN PANCREATIC ENDOCRINE AND ACINAR TUMORS

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



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/00024

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 38/00; C12Q 1/58 (2007.01)

USPC - 514/12, 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)

IPC(8) - A61K 38/00; C12Q 1/58 (2007.01)

USPC - 514/12, 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(USPT,PGPB,EPAB,JPAB); Google Patents; Google Scholar

Search terms: miRNA or microRNA, cancer, pancreas or pancreatic, proliferation index, metastatic, PET, PACC, insulinoma,WDEC, NF-PET), programmed cell death protein 4 (PDCD4), microarray

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004/0152112 A1 (CROCE et al.) 5 August 2004 (05.08.2004) para [0018]-[0019], [0022], [0048] and [0110]-[0111].	1-64
Y	CROCE et al., miRNAs, cancer, and stem cell division, Cell [online], 15 July 2005, Vol. 122, No. 1, pages 6-7. [Retrieved on 2007.09.12]. [Retrieved from the internet: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WSN-4GMHDPG-4&_user=10&_coverDate=07%2F15%2F2005&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=3cd56a72bebd431be2fe0db402dbf8b].	1-64
Y	US 2005/0256072 A1 (ARONIN et al.) 17 November 2005 (17.11.2005) para [0104], [0109], and pg 4-8, Table 1.	3-5, 13, 15, 19, 21, 24, 26, 29, 49-54, 60 and 64
Y	IORIO et al., MicroRNA gene expression deregulation in human breast cancer, Cancer Research [online], 15 August 2005, Vol. 65, No. 16, pages 7065-7070. [Retrieved on 2007.09.14]. [Retrieved from the internet: http://cancerres.aacrjournals.org/cgi/reprint/65/16/7065].	16-29 and 32-39
Y	JANSEN et al., Epidermal expression of the translational inhibitor programmed cell death 4 suppresses tumorigenesis, Cancer Research, 15 July 2005, Vol. 65, No. 14, pages 6034-6041 [online]. [Retrieved on 2007.09.14]. [Retrieved from the internet: http://cancerres.aacrjournals.org/cgi/reprint/65/14/6034].	40-42



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
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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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.
Y	THOMSON et al. A custom microarray platform for analysis of microRNA gene expression, Nature Methods [online], October 2004, Vol. 1, No. 1, pages 47-53. [Retrieved on 2007.09.12]. [Retrieved from the internet: http://www.nature.com/nmeth/journal/v1/n1/pdf/nmeth704.pdf].	43-48