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(54) Title: ISOLATION, GENE EXPRESSION, AND CHEMOTHERAPEUTIC RESISTANCE OF MOTILE CANCER CELLS

(57) Abstract: Methods of isolating motile cells of interest from an animal tissue is provided. Also provided are methods of determining mRNA or protein expression of a gene in motile cells of interest from an animal tissue. Additionally, methods of determining whether a cancer in a tissue of a mammal is likely to metastasize are provided. Methods are also provided for inhibiting metastasis of a cancer in a tissue of a mammal. Further provided are methods of determining resistance of a motile cancer cell population in an animal tissue to a chemotherapeutic agent.



WO 2006/017635 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/27680

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G01N 33/574(2006.01)

USPC: 435/7.23

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)

U.S. : 435/7.23

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)

West Patent Database, Medline, Biosis, Embase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Wyckoff JB et al. Cancer Research 60:5401-5404, October 2000.	1-19, 21, 22, 25
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Y		51-61
X	Wang W. et al. Cancer Research 62: 6278-6288, November 2002.	1-50
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Y		51-71
X	Wang W et al. BMC Biotechnology 3:13, August 2003.	1-50
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Y		51-61
Y	Santala M et al. British Journal of Cancer 77(11): 1825-1831, 1998; Abstract only enclosed.	62-67



Further documents are listed in the continuation of Box C.



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"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"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	Li T et al. Cinical Breast Cancer 3(6):405-416, 2003; Abstract only enclosed.	68-71
Y	Thigpen JT Semin. Oncol. 27(3 Suppl 7):11-16, 2000; Abstract only enclosed.	72 and 73