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(54) Title: SCREENING STRATEGY FOR ANTICANCER DRUGS

(57) Abstract: The invention provides methods and reagents for identifying compounds that growth inhibit or kill tumor cells.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25221

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/53; C07K 5/00; A61K 38/00

US CL : 435/7.1; 530/300; 514/2

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. : 435/7.1; 530/300; 514/2

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)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	IANZINI et al. Transient S/G2 delay in adriamycin-treated PC-3 human prostate cancer cells is followed by overaccumulation of cyclin B1 protein and induction of mitotic catastrophe. Free Radical Biol Med. 2002, Vol.33, Suppl. 2, page S404, Abstract No. 312. See entire document.	1-19, 23, 27
Y	KUDRYAVETS et al. Dynamics of apoptotic events induced in human leukemia U-937 cells by tumor necrosis factor. Experimental Oncology. December 1996, Vol. 18, pages 353-365. See abstract.	1-19, 23, 27
Y	COGSWELL et al. Dominant-negative Polo-like kinase-1 induces mitotic catastrophe independent of cdc25c function. Cell Growth and Differentiation. December 2000, Vol. 11, pages 615-623. See entire document.	1-19, 23, 27
Y	ANDREASSEN et al. Neither p21 ^{-WAF1} nor 14-3-3-σ prevents G ₂ progression to mitotic catastrophe in human colon carcinoma cells after DNA damage, but p21 ^{-WAF1} induces stable G ₁ arrest in resulting tetraploid cells. Cancer Res. 15 October 2001, Vol. 61, pages 7660-7668. See entire document, and especially page 7662, first column, figure 2 on page 7662, and page 7664, first column, last paragraph, bridging second column.	4-19



Further documents are listed in the continuation of Box C.



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"&"

document member of the same patent family

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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	CHANG et al. A senescence-like phenotype distinguishes tumor cells that undergo terminal proliferation arrest after exposure to anticancer agents. Cancer Res. 01 August 1999, Vol. 59, pages 3761-3767. See entire document.	4-19, 24-26

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

DIALOG, WEST

search terms: mitotic catastrophe or senescence, cancer cell death, mitotic index