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**Declarations under Rule 4.17:**

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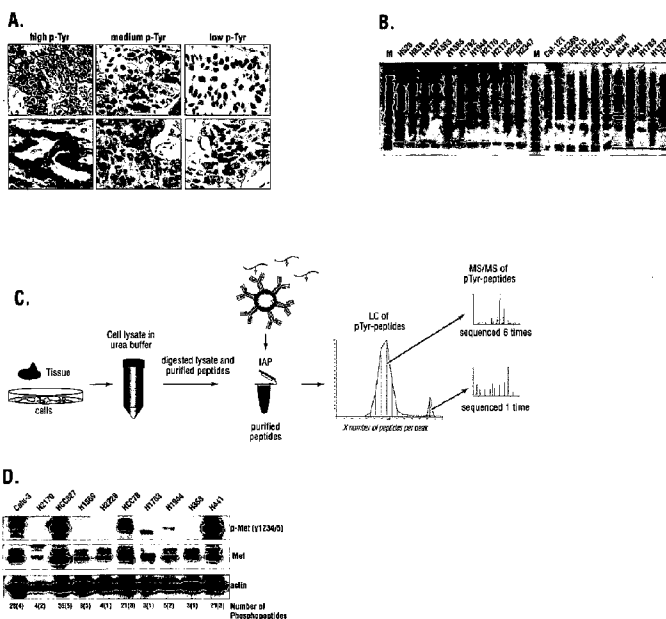
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(54) Title: CANCER CLASSIFICATION AND METHODS OF USE

Figure 1



(57) Abstract: The present invention relates to methods of classifying cancer cells based on the presence, absence or level of a tyrosine kinase or a phosphorylated tyrosine kinase. The present invention also relates to methods of treating cancer using cancer classification. The present invention further relates to methods of determining the effectiveness of a treatment for cancer using cancer classification.

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## INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - C12N 5/08 (2009.01) USPC - 435/371 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) USPC:435/371 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 435/371, 435/40.5; 436/64 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWest, Google Scholar, Google Patent: Classify, tyrosine kinase, pathway, phosphorylated tyrosine kinase, immunoprecipitating phosphopeptides, statistical, unsupervised pearson clustering, receptor tyrosine kinase, phsophorylated Src, Able, Fak, non small cell lung cancer, NSCLC, DDR1, cancer, signal transduction, western		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2005/0239088 A1 (SHEPARD et al.) 27 Oct 2005 (27.10.2005); para [0015], [0056], [0069], [0164], [0214], [0293], [0301], [0302], [0304], [0367]	14-16, 18, 19, 21, 26-28, 30, 36-39, 41, 42, 47-49, 51 ----- 1-13, 17, 20, 22-25, 29, 31-35, 40, 43-46, 50
Y	US 6,528,270 B1 (SCHLESSINGER et al.) 04 Mar 2003 (04.03.2003); col 2, ln 40-45; col 3, ln 2-15; col 8, ln 19-29; col 5, ln 15-35; col 4, ln 61- col 5, ln 5; col 11, ln 11-26; col 19, ln 8-24	1-13, 22-25, 33-35, 43-46
Y	US 5,618,691 B1 (SCHLESSINGER et al.) 08 Apr 1997 (08.04.1997); col 42, ln 23-29	4, 17, 29, 40, 50
Y	US 2006/0122816 A1 (SCHADT et al.) 08 Jun 2006 (08.06.2006); para [0024]	7, 20
Y	US 7,109,337 B2 (KATH et al.) 19 Sep 2006 (19.09.2006); col 2, ln 5-21	9, 22, 31, 32, 43
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774