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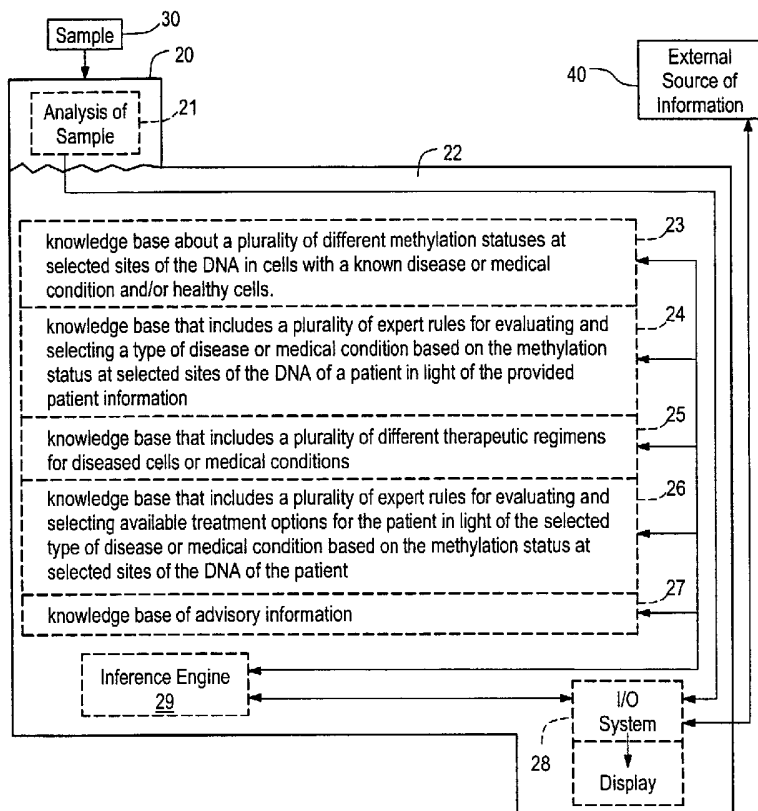
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(54) Title: SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR GUIDING THE SELECTION OF THERAPEUTIC TREATMENT REGIMENS



(57) Abstract: Systems, methods and computer program products for guiding selection of a therapeutic treatment regimen or a preventive therapeutic treatment regimen are disclosed. The method comprises (A) providing to a computing device comprising a first knowledge base comprising information about a plurality of different methylation statuses at selected sites of the DNA in cells with a known disease or medical condition and/or healthy cells, a second knowledge base comprising a plurality of expert rules for evaluating and selecting a type of disease or medical condition based on the methylation status at selected sites of the DNA of a patient, (B) generating in said computing device a ranked listing of diseases or medical conditions based on the information about the methylation status at selected sites of the DNA of the patient, the first knowledge base and the second knowledge base.



WO 02/037398 A3



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## INTERNATIONAL SEARCH REPORT

Inte Application No

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## A. CLASSIFICATION OF SUBJECT MATTER

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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)

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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 practical, search terms used)

EPO-Internal, WPI Data, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 6 081 786 A (UNDERWOOD CAROLYN S ET AL) 27 June 2000 (2000-06-27) cited in the application abstract; claims 1-4 ---	1-50
E	EP 1 176 539 A (HOFFMANN LA ROCHE LTD F ;VIROLOGY NETWORKS B V (NL)) 30 January 2002 (2002-01-30) the whole document ---	1-50
Y	LATHORP R H ET AL: "KNOWLEDGE-BASED AVOIDANCE OF DRUG-RESISTANT HIV MUTANTS" AI MAGAZINE, LA CANADA, CA, vol. 20, no. 1, March 1999 (1999-03), pages 13-25, XP000972629 ISSN: 0738-4602 abstract ---	1-50
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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.
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