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(54) Title: METHODS AND MEANS FOR ASSESSING HIV GAG/PROTEASE INHIBITOR THERAPY

(57) Abstract: The present invention relates to methods and means for the evaluation of HIV treatment. In particular, molecular events at the HIV gag and protease proteins and their effect on therapeutic efficacy of drugs are determined. The methods rely on providing HIV gag and protease nucleic acid material and evaluating a treatment either through genotyping or phenotyping. Said method may find use in multiple fields including diagnostics, drug screening, pharmacogenetics and drug development.



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# INTERNATIONAL SEARCH REPORT

International application No  
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## A. CLASSIFICATION OF SUBJECT MATTER

INV. C12Q1/70 C12Q1/68 G01N33/68 C12N15/09

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)

C12Q G01N C12N

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, BIOSIS, WPI Data, PAJ, MEDLINE, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                                                               | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X         | GATANAGA H ET AL: "AMINO ACID SUBSTITUTIONS IN GAG PROTEIN AT NON-CLEAVAGE SITES ARE INDISPENSABLE FOR THE DEVELOPMENT OF A HIGH MULTITUDE OF HIV-1 RESISTANCE AGAINST PROTEASE INHIBITORS"<br>JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOCHEMICAL BIOLOGISTS, BIRMINGHAM,, US,<br>vol. 277, no. 8,<br>22 February 2002 (2002-02-22), pages 5952-5961, XP001121729<br>ISSN: 0021-9258<br>cited in the application | 2,7,9,<br>10,15       |
| Y         | page 5953, column 1; figure 1<br>page 5955, column 1<br>-----<br>-/--                                                                                                                                                                                                                                                                                                                                                            | 1-15                  |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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| C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |                                                                                                                                                                                                                                                                                                                                                                        |                       |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
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Information on patent family members

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