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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MATERIALS AND METHODS FOR IMMUNIZING AGAINST FIV INFECTION

(57) Abstract: The subject invention pertains to methods and compositions for protecting feline animals from infection by FIV using immunogens derived from primate immunodeficiency viruses, including HIV and SIV. Methods for vaccinating feline animals with the subject vaccine compositions are described. Feline animals vaccinated according to the methods and compositions of the subject invention exhibit protective humoral and cellular immune responses to FIV when challenged with FIV.



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INTERNATIONAL SEARCH REPORT

PC/US2004/014928

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K39/21

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)
IPC 7 A61K

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, PAJ, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/067984 A (ARAI MAKI ; TANABE TAISHI (US); PU RUIYU (US); UNIV FLORIDA (US); JANE) 6 September 2002 (2002-09-06) page 19 - page 26	1-76
A	DE RONDE A. ET AL: "Antibody response in cats to the envelope proteins of Feline Immunodeficiency Virurs: identification of an immunodominant neutralization domain" VIROLOGY, vol. 198, January 1994 (1994-01), pages 257-264, XP002306797 figures 1,2; tables 1-3 ----- -/-	1-76



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "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
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

22 November 2004

Date of mailing of the international search report

07/12/2004

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INTERNATIONAL SEARCH REPORT

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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.
A	LEUTENEGGER C M ET AL: "IMMUNIZATION OF CATS AGAINST FELINE IMMUNODEFICIENCY VIRUS (FIV) INFECTION BY USING MINIMALISTIC IMMUNOGENIC DEFINED GENE EXPRESSIONVECTOR VACCINES EXPRESSING FIV GP140 ALONE OR WITH FELINE INTERLEUKIN-12 (IL-12), IL-16, OR A CPG MOTIF" JOURNAL OF VIROLOGY, THE AMERICAN SOCIETY FOR MICROBIOLOGY, US, vol. 74, no. 22, November 2000 (2000-11), pages 10447-10457, XP000944917 ISSN: 0022-538X the whole document -----	1-76

INTERNATIONAL SEARCH REPORT

PCT/US2004/014928

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-55, 76 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PC/US2004/014928

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02067984 A	06-09-2002	WO 02067984 A2	06-09-2002
		US 2003091987 A1	15-05-2003