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**Declarations under Rule 4.17:**
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

**Published:**
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

(88) Date of publication of the international search report:
12 June 2008

(54) Title: IL-17 ANTAGONISTIC ANTIBODIES FPR TREATING CANCER

(57) Abstract: An IL-17 binding molecule, in particular an antibody to human IL-17, more preferably a human antibody to human IL-17 is provided, wherein the hypervariable regions of the heavy and light chains have amino acid sequences as defined, for use in the treatment of a solid or hematological malignant diseases.

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# INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/061276

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07K16/24

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)
C07K

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | WO 00/69463 A (SCHERING CORP [US]; INST NAT SANTE RECH MED [FR]; INST CURIE [FR]; FRI) 23 November 2000 (2000-11-23) | 1,4-6 |
| Y | the whole document | 1-6 |
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| | --- | |
| | -/-- | |

[X] Further documents are listed in the continuation of Box C.

[X] See patent family 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 | Date of mailing of the international search report |
|---|---|
| 1 April 2008 | 17/04/2008 |

| Name and mailing address of the ISA/ | Authorized officer |
|---|---|
| European Patent Office, P.B. 5818 Patentlaan 2<br>NL – 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016 | Lechner, Oskar |

Form PCT/ISA/210 (second sheet) (April 2005)

# INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/061276

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| A | DUMONT F J: "IL-17 cytokine/receptor families: Emerging targets for the modulation of inflammatory responses" EXPERT OPINION ON THERAPEUTIC PATENTS, ASHLEY PUBLICATIONS, GB, vol. 13, no. 3, 1 March 2003 (2003-03-01), pages 287-303, XP002351568 ISSN: 1354-3776 abstract page 296, right-hand column, paragraph 9 | 1-6 |
| A | R&D SYSTEMS: "Monoclonal Anti-human IL-17 Antibody" PRODUCT DATA SHEET, 11 January 2004 (2004-01-11), pages 1-2, XP002351567 the whole document | 1-6 |
| P,X | WO 2006/013107 A (NOVARTIS AG [CH]; NOVARTIS PHARMA GMBH [AT]; DI PADOVA FRANCO E [CH];) 9 February 2006 (2006-02-09) the whole document | 1-6 |
| P,X | WO 2006/054059 A (UCB CELLTECH [GB]; ADAMS RALPH [GB]; POPPLEWELL ANDREW GEORGE [GB]; RA) 26 May 2006 (2006-05-26) the whole document | 1-6 |

# INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/061276

**Box No. 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. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 6 is 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 No. 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 allsearchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers 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 and, where applicable, the payment of a protest fee.

[ ] The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

[ ] No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2007/061276

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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