(54) Title: VITAMIN D RECEPTOR ANTAGONISTS AND THEIR USE IN TREATING ASTHMA

(57) Abstract: Various compounds such as those having the formula (I) and (XIV) where the variables have the values described herein antagonize the vitamin D receptor and are useful in treating conditions such as asthma and in preparing medicaments for use in antagonizing the vitamin D receptor or treating conditions such as asthma.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: A61K 31/59 (2006.01);C07C 401/00 (2006.01)
USPC: 514/167; 552/653
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)
U.S.: 514/167; 552/653

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 practicable, search terms used)
REGISTRY, CAPLUS, MARPAT, USPATFULL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>FUJISHIMA et al., &quot;Design and synthesis of potent vitamin D receptor antagonists with A-ring modifications: Remarkable effects of 2alpha-methyl introduction on antagonistic activity.&quot; Bioorg. Med. Chem., 2003, Vol. 11, pages 3621-3631, see the entire article, especially page 3622, compounds 4a and 4b and Results and Discussion.</td>
<td>1-3,5,7,8,10,12 and 26-36</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,376,480 B1 (KIRSCH et al.) 23 April 2002 (23.04.2002), see the entire article, especially figure 1, col. 1, lines 11-39; col. 10, line 42-col. 15, line 60.</td>
<td>1-3,5,7,8,10,12 and 26-36</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
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*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

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Date of the actual completion of the international search 28 April 2006 (28.04.2006)
Date of mailing of the international search report 18 MAY 2006

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Telephone No. 571-272-1600
Form PCT/ISA/210 (second sheet) (April 2005)