METHODS AND COMPOSITIONS RELATED TO EOSINOPHIL REGULATION

Disclosed are compositions and methods for regulating eosinophils.
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) - A61K 36/14, 51/00; C12N 5/06 (2007.01)
USPC - 424/1.41

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)
USPC: 435/1.41, 6, 914, 252.3, 320.1, 333; 530/350; 530/23.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 435/6, 914.252.3, 320.1, 333; 530/350; 530/23.5

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWest: PGFB, USPT, USOC, EPAB, JPAB Google Patents, Google Scholar, Google siRNA, Eosinophil, Inhibitor, viral vector, IL-5, retroviral, Inhibitor, EPO, eosinophil granule ontogeny, eosinophil granule protein transcript, Friend of Eosinophil, Development, asthma, 4-Amino-N-pyridin-3-yl-methylbenzamide.

**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>X</td>
<td>US2006/0040313 A1 (Li et al.) 23 February 2006 (23.02.2006) para [0049]-[0050], [0052], [0059], [0069], [0104], [0109]-[0111]</td>
<td>1-2 and 5-6</td>
</tr>
<tr>
<td>Y</td>
<td>Okada et al. Lithocaine and its Analogues Inhibit IL-5-Mediated Survival and Activation of Human Eosinophils The Journal of Immunology; 1998; 160: 4010-4017; Abstract</td>
<td>3-4, 10, 17 and 26</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,631,267 A (Glech et al.) 20 May 1997 (20.05.1997)</td>
<td>18-19 and 24</td>
</tr>
<tr>
<td>Y</td>
<td>Mochnon et al. An Interleukin 5 Mutant Distinguishes between Two Functional Responses in Human Eosinophils. JEM, 7 July 1997, Vol 186, No 1, pp 121-129; Abstract</td>
<td>3-4 and 15-17</td>
</tr>
<tr>
<td>Y</td>
<td>4, 9, 11-13 and 16-17</td>
<td>20</td>
</tr>
</tbody>
</table>

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

* 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 application or patent 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**

13 Nov 2007

**Name and mailing address of the ISA/US**

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Facsimile No. 571-273-3201

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