Abstract: The present invention relates to the treatment of ocular diseases and conditions by administering a complement pathway inhibitor, particularly an alternative pathway inhibitor. Ocular diseases include age-related macular degeneration, diabetic retinopathy, and ocular angiogenesis. One embodiment comprises the administration of an anti-Factor D antibody in the form of a whole antibody, a Fab fragment or a single domain antibody. Other complement component inhibitors that may be useful in the present method include Factor H or inhibitors that block the action of properdin, factor B, factor Ba, factor Bb, C2, C2a, C3a, C5, C5a, C5b, C6, C7, C8, C9, or C5b-9.
**INTERNATIONAL SEARCH REPORT**

**INTERNATIONAL APPLICATION No**

PCT/US06/43103

**CLASSIFICATION OF SUBJECT MATTER**

IPC(8) - C07K 17/00; A61 K 38/00 (2007.01)

According to International Patent Classification (IPC) or to both national classification and IPC

**FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

USPC - 530/381, 514/2

**DOCUMENTATION SEARCHED**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC - 530/380, 424/423, 424/489

**ELECTRONIC DATA BASE CONSULTED DURING THE INTERNATIONAL SEARCH**

PubWest (USPT, PGPB, EPAB, JPAB), DialogPRO (patents), Medline, Pub Med Central, Google Patents, Google Scholar

Terms complement, complement pathway, complement pathway inhibitors, ocular disease, IRNA, antibodies, ocular neovascularization, macular degeneration, complement inhibitors, inhibitors of complement activation

**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</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Bora, et al., Role of Complement and Complement Membrane attack Complex in Laser-Induced Choroidal Neovascularization J of Immunol 1 Jan 2005, Vol 174 491-497, in entirety, esp pg 491 and 496</td>
<td>1 and 2</td>
</tr>
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<td>Y</td>
<td>WO 02/30985 A2 (Fung, et al) 18 April 2002 (18 04 2002), in entirety, esp Claims 5, 6, 10 and 14, [0015]</td>
<td>11</td>
</tr>
<tr>
<td>Y</td>
<td>US 2005/0222027 A1 (Chiang, et al) 10 June 2005 (10 06 2005), in entirety, esp [011] 1, [0116], [0125], [0171], [0172], Claim 85</td>
<td>6, 13-22, 26, 27</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

Date of the actual completion of the international search

12 April 2007 (12 04 2007)

Date of mailing of the international search report

10 AUG

Name and mailing address of the ISA/US

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Authorized officer

Lee W Young

PCT Helpdesk 571-272 4300
PCTOSP 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2005)
**INTERNATIONAL SEARCH REPORT**

**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. **LJ** Claims Nos because they relate to subject matter not required to be searched by this Authority, namely

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. **X** Claims Nos 23-25 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 all searchable claims

2. **□** As all searchable claims could be searched without effort justifying 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 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 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

Form PCT/ISA/210 (continuation of first sheet (2)) (Apπ1 2005)