Title: ADENYLYL CYCLASES AS NOVEL TARGETS FOR THE TREATMENT OF INFECTION BY EUKARYOTIC PATHOGENS

Abstract: The present invention relates to a method of preventing or treating a disease caused by infection by a eukaryotic pathogen, wherein the method comprises administering an effective amount of a modulator of a eukaryotic pathogen's adenyl cyclase. The invention also provides pharmaceutical compositions useful for preventing or treating a disease, with the compositions containing a therapeutically effective amount of a modulator of a eukaryotic pathogen's adenyl cyclase. The invention also provides screening methods for identifying selective modulators of a eukaryotic pathogen's adenyl cyclase that do not substantially modulate an adenyl cyclase of the subject. The invention also provides methods for culturing eukaryotic pathogens and methods for inducing the pathogenic state in vitro.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: C12Q 1/68 (2006.01); C12N 1/20 (2006.01); G01N 33/569 (2006.01); C12N 1/12 (2006.01)

USPC: 435/6; 435/252.1
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.: 435/6; 435/252.1

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)
EST

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>
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</table>

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

Date of the actual completion of the international search 22 June 2008 (22.06.2008)
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