METHODS FOR SELECTING PROTEASE RESISTANT POLYPEPTIDES

Abstract: The invention relates to a method for selecting, isolating and/or recovering a peptide or polypeptide from a library or a repertoire of peptides and polypeptides (e.g., a display system) that is resistant to degradation by a protease such as a protease found in the GI tract or pulmonary tissue of a human. Generally, the method comprises providing a library or repertoire of peptides or polypeptides, combining the library or repertoire with a protease under conditions suitable for protease activity, and selecting, isolating and/or recovering a peptide or polypeptide that is resistant to degradation by the protease and has a desired biological activity. The selected peptides and polypeptides have utility as therapeutics, e.g. for treating disease or conditions of GI tract or pulmonary tissue in humans.
## INTERNATIONAL SEARCH REPORT

### A. CLASSIFICATION OF SUBJECT MATTER

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<th>INV.</th>
<th>C07K16/00</th>
<th>C07K16/22</th>
<th>C07K16/28</th>
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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

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

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- **"E"** earlier document but published on or after the international filing date
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### Date of the actual completion of the international search

16 January 2009

### Date of mailing of the international search report

09/02/2009

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Authorized officer

Le Flao, Katell

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