Title: NEURAL REGENERATION PEPTIDES AND ANTIOXIDANTS PROTECT NEURONS FROM DEGENERATION

Abstract: Aspects of this invention include compositions for treating conditions in which neurons would otherwise degenerate or die as a result of an insult to the nervous system. Other aspects include methods for treating conditions in which neurons would otherwise degenerate or die as a result of an insult to the nervous system. Compositions include a neural regeneration peptide (NRP) and an antioxidant. The methods include administering to a subject in need thereof, a composition comprising a neural regeneration peptide and an antioxidant. Compositions including one or more NRPs and one or more antioxidants can also be used in vitro, to promote growth and differentiation of neural cell cultures. Kits include one or more NRPs, one or more antioxidants, solvents for preparing solutions, a mixing vial and instructions for use.
Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
— with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

(88) Date of publication of the international search report:

21 December 2007

For two-letter codes and other abbreviations, refer to the ”Guidance Notes on Codes and Abbreviations ” appearing at the beginning of each regular issue of the PCT Gazette.
With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of:

1. a type of material
   - [ ] a sequence listing
   - [ ] table(s) related to the sequence listing

2. format of material
   - [X] on paper
   - [ ] in electronic form

3. time of filing/furnishing
   - [X] contained in the international application as filed
   - [ ] filed together with the international application in electronic form
   - [ ] furnished subsequently to this Authority for the purposes of search

In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

Additional comments
### INTERNATIONAL SEARCH REPORT

**International application No**

**PCT/US 06/26994**

**Box No. II** Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

<table>
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<th>Claims Nos because they relate to subject matter not required to be searched by this Authority, namely</th>
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|   |   | 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 |

| D | Claims Nos 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

Inventions 1-29, peptides having sequences 1-29

SEQ ID Nos 1-29 do not share any significant structural element and cannot be considered as having the same or corresponding technical feature

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**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)) (April 2007)
INTERNATIONAL SEARCH REPORT

A CLASSIFICATION OF SUBJECT MATTER
IPC(8) - C12Q 1/68; A61K 38/17, C07H 21/04 (2007.01)
USPC - 530/350
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 530/350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC 435/6, 69 1, 320 1, M8, 536/23 5 (see search terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWest PGPD,USPT,USOC,EPAB,JPAB, Google Scholar Google Patents,
Text Neurodegenerative, neuron, neural regeneration peptide, antioxidant (s), antioxidant (s), ascorbic acid, Parkinson’s, culture, kit, via

C DOCUMENTS CONSIDERED TO BE RELEVANT

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Further documents are listed in the continuation of Box C

Date of the actual completion of the international search: 05 September 2007 (05 09 2007)
Date of mailing of the international search report: 12 OCT 2007

Name and mailing address of the ISA/US
Mail Stop PCT Attn ISA/US, Commissioner for Patents
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Facsimile No 571-273-3201

Authorized officer
Lee W Young
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PCTOSP 571 272-7774

Form PCT/ISA/210 (second sheet) (April 2007)