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(US). **YEDNOCK, Ted** [US/US]; 184 Arroyo Road, Forest Knolls, CA 94933 (US).

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(74) Agents: **LIEBESCHUETZ, Joe** et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).

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(71) Applicant (*for all designated States except US*): **NEURALAB LIMITED** [—/—]; 102 St. James Court, Flatts, Smiths FL04 (BM).

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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SCHENK, Dale, B.** [US/US]; 1542 Los Altos Drive, Burlingame, CA 94010 (US). **BARD, Frederique** [FR/US]; 1111 Park Pacifica Avenue, Pacifica, CA 94404 (US). **VASQUEZ, Nicki, J.** [US/US]; 310 Sanchez Street, San Francisco, CA 94114

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(54) Title: PREVENTION AND TREATMENT OF AMYLOIDOGENIC DISEASE

(57) Abstract: The invention provides improved agents and methods for treatment of diseases associated with amyloid deposits of A $\beta$  in the brain of a patient. Such methods entail administering agents that induce a beneficial immunogenic response against the amyloid deposit. The methods are useful for prophylactic and therapeutic treatment of Alzheimer's disease. Preferred agents including N-terminal fragments of A $\beta$  and antibodies binding to the same.

WO 00/72880 A3



# INTERNATIONAL SEARCH REPORT

Internat. Application No

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/395 A61K38/17 A61K39/39 A61K39/00 G01N33/68  
A61K48/00 A61P25/28 //C07K16/18,C07K14/47

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)

IPC 7 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)

STRAND, MEDLINE, LIFESCIENCES, CANCERLIT, AIDSLINE, CHEM ABS Data, EMBASE, SCISEARCH, WPI Data, EPO-Internal, PAJ, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                | Relevant to claim No. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X          | EP 0 613 007 A (LILLY CO ELI ;ATHENA<br>NEUROSCIENCES INC (US))<br>31 August 1994 (1994-08-31)<br>column 1, line 46 -column 2, line 4<br>column 5, line 27 -column 8, line 18<br>claims<br>---                    | 1-52,<br>87-108       |
| X          | WO 95 11994 A (LILLY CO ELI ;ATHENA<br>NEUROSCIENCES INC (US))<br>4 May 1995 (1995-05-04)<br>page 1, line 7-13<br>page 5, line 31 -page 6, line 18<br>page 18, line 23 -page 19, line 30<br>claims<br>---<br>-/-- | 100-108               |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*Z\* document member of the same patent family

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Covone, M

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                        | Relevant to claim No. |
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| A        | VAN GOOL W A ET AL: "Concentrations of amyloid-beta protein in cerebrospinal fluid increase with age in patients free from neurodegenerative disease."<br>NEUROSCIENCE LETTERS,<br>vol. 172, no. 1-2, 1994, pages 122-124,<br>XP000961282<br>ISSN: 0304-3940<br>the whole document<br>--- | 1-108                 |
| P,X      | SCHENK D ET AL: "Immunization with amyloid-beta attenuates Alzheimer -disease-like pathology in the PDAPP mouse 'see comments!.'<br>NATURE, (1999 JUL 8) 400 (6740) 173-7. ,<br>XP002154168<br>the whole document<br>---                                                                  | 48-86                 |
| P,X      | WO 99 27944 A (SCHENK DALE B ;ATHENA NEUROSCIENCES INC (US))<br>10 June 1999 (1999-06-10)<br>examples<br>claims<br>-----                                                                                                                                                                  | 1-108                 |

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Information on patent family members

International Application No

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s)                                                                                                                                                                                                  | Publication<br>date                                                                                                                                                                              |
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