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(54) Title: USE OF RECOMBINANT GENE DELIVERY VECTORS FOR TREATING OR PREVENTING DISEASES OF THE EYE

(57) Abstract: Gene delivery vectors, such as, for example, recombinant adeno-associated viral vectors, and methods of using such vectors are provided for use in treating or preventing diseases of the eye.



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## INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K48/00 C12N15/00 C12N15/63 C12N15/86 A61P25/00 A61P27/00		
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 A61K C12N		
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, WPI Data, PAJ, BIOSIS, MEDLINE, CHEM ABS Data, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 00 15822 A (JANSSEN JACQUES J ;CATHOLIC UNIVERSITY NIJMEGEN (NL); HAUSWIRTH WI) 23 March 2000 (2000-03-23) * see claims 1, 13-15, 21, 31-32 and page 37 *	1-6,8,9, 16, 22-25,29
X,P	WO 00 01815 A (BLOM NIKOLAJ ;HANSEN CLAUS (DK); JOHANSEN TEIT E (DK); NEUROSEARCH) 13 January 2000 (2000-01-13) * see page 1, page 28 lines 4-8, page 24 lines 6-11 and page 25 line 25 to page 26 line 30 *	1,5,6,8, 9,22,27
X	US 5 641 749 A (YAN QIAO ET AL) 24 June 1997 (1997-06-24)	1,2,9, 22,23
Y	* see claims 1-2, 11 and col.16 line 62 to col.17 line 42 *	1-16, 22-25, 27-29
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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 document 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. *&* document member of the same patent family		
Date of the actual completion of the international search  21 December 2000		Date of mailing of the international search report  15.01.01
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  Gore, V

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International Application No

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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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Y	* see claims 1,9,17,20, page 10 lines 10-19 and page 11 lines 11-15 *	1-16, 22-25, 27-29
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Y	* see abstract, pages 274 and 278 *	1-16, 22-25, 27-29
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International Application No

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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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Y	* see abstract, page 5 lines 1-4, page 16 lines 21-25 *	17-21, 26,28,29
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X	WO 98 51323 A (STRUMAN INGRID ;MARTIAL JOSEPH A (BE); TAYLOR ROBERT (US); UNIV CA) 19 November 1998 (1998-11-19)	22,27-29
Y	* see abstract, page 8 lines 1-12 and pages 16-17 *	17-21,26
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Y	* see abstract and page 4 lines 10-16 *	17-21, 26-29
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Y	* see col. 4 lines 33-46, col. 5 line 59 to col. 6 line 5, cl. 8 *	17-21, 26-29
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Y	* see abstract, cl. 21 and page 18 *	17-21
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Y	SMITH L.E.H. ET AL.: "Inhibition of retinal neovascularization with an IGF-1 receptor antagonist." IOVS, vol. 39, 1998, page S450 XP000944951 * abstract *	17-22, 26-29
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International Application No

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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.
Y	FOTSIS T. ET AL.: "The endogenous oestrogen metabolite 2-methoxyoestradiol inhibits angiogenesis and suppresses tumour growth." NATURE, vol. 368, 1994, pages 237-239, XP002046111 * abstract *	17-22, 26-29
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 00/07062

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 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.  Claims Nos.: -  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT . Although claims 1-21 are directed to methods of treatment of the animal or human body, the search was carried out on the alleged therapeutic effects of the compounds of the application.
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.  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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

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 an additional fee, this Authority did not invite payment of any additional fee.
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.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-16, 22 (part), 23-25, 27-29 (part)

Use of an expression vector encoding a neurotrophic factor (claims 1-16, claim 22 (part), claims 23-25, claims 27-29 (part)).

2. Claims: 17-21, 22 (part), 26, 27-29 (part)

Use of an expression vector encoding a anti-angiogenic factor (claims 17-21, claim 22 (part), claim 26, claims 27-29 (part)).

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/07062

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Information on patent family members

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