



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12N 15/86, 5/10, A61K 48/00	A3	(11) International Publication Number: WO 00/08191 (43) International Publication Date: 17 February 2000 (17.02.00)
(21) International Application Number: PCT/GB99/02529 (22) International Filing Date: 2 August 1999 (02.08.99) (30) Priority Data: 9816781.0 31 July 1998 (31.07.98) GB (71) Applicant (for all designated States except US): NEUROVEX LIMITED [GB/GB]; Marquis House, 67-68 Jermyn Street, London SW1Y 6NY (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): COFFIN, Robert, Stuart [GB/GB]; UCL Medical School, Division of Pathology, Dept. of Molecular Pathology, The Windeyer Building, 46 Cleveland Street, London W1P 6DP (GB). CHAIN, Benjamin [GB/GB]; UCL Medical School, Dept. of Immunology, The Windeyer Building, 46 Cleveland Street, London W1P 6DP (GB). (74) Agents: WOODS, Geoffrey, Corlett et al.; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5LX (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 8 June 2000 (08.06.00)
(54) Title: HERPES VIRUS VECTORS FOR DENDRITIC CELLS (57) Abstract <p>An attenuated herpes virus capable of efficiently infecting a dendritic cell without preventing antigen processing occurring within the infected cell. The attenuated herpes virus and dendritic cells infected with the virus are useful in immunotherapeutic methods of treating disease.</p>		

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EE	Estonia						

INTERNATIONAL SEARCH REPORT

Inter. Appl. No.

PCT/GB 99/02529

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/86 C12N5/10 A61K48/00

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 C12N A61K

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 04726 A (BROWN SUZANNE MOIRA ;MACLEAN ALASDAIR RODERICK (GB); MEDICAL RES C) 5 February 1998 (1998-02-05) the whole document	1-21, 24, 26-29, 31
X	COFFIN R. S. ET AL.: "Pure populations of transduced primary huma cells can be produced using GFP expressing herpes virus vectors and flow cytometry." GENE THERAPY, vol. 5, May 1998 (1998-05), pages 718-722, XP000876854 cited in the application	1, 2, 13-31
Y	the whole document	4, 5, 8, 9, 11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

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"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

18 February 2000

Date of mailing of the international search report

07/03/2000

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 99/02529

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	COFFIN R. S. ET AL.: "Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors" GENE THERAPY, vol. 3, no. 10, October 1996 (1996-10), pages 886-891, XP002108600 ISSN: 0969-7128 cited in the application the whole document	4,5,8,9, 11
P,X	WO 98 51809 A (UNIV PITTSBURGH) 19 November 1998 (1998-11-19) the whole document, especially page 19, lines 35-37	1,2,8,9, 11-31

INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB 99/ 02529

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:
Although claim 25, as far as in vivo application is concerned, and claim 31 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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:

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 99/02529

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9804726 A	05-02-1998	AU 3700797 A EP 0920523 A	20-02-1998 09-06-1999
WO 9851809 A	19-11-1998	US 5998174 A AU 7478998 A	07-12-1999 08-12-1998