



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : A61K 9/127, 48/00	A3	(11) International Publication Number: WO 00/03683 (43) International Publication Date: 27 January 2000 (27.01.00)
(21) International Application Number: PCT/US99/16166 (22) International Filing Date: 16 July 1999 (16.07.99) (30) Priority Data: 60/093,481 20 July 1998 (20.07.98) US (71) Applicant (for all designated States except US): INEX PHARMACEUTICALS CORPORATION [US/US]; Glenlyon Business Park, 100-8900 Glenlyon Parkway, Burnaby, British Columbia V6K 3S4 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): BOEY, Anthony [CA/CA]; 419-2551 Parkview Lane, Port Coquitlam, British Columbia V3C 6J8 (CA). CHEN, Tao [CA/CA]; 9-7711 Minorn Boulevard, Richmond, British Columbia V64 1Z3 (CA). LENG, Esther [CA/CA]; 14136 88th Avenue, Surrey, British Columbia V3W 3L6 (CA). TARD, Paul, G. [CA/CA]; 19081 Sundale Court, Surrey, British Columbia V3S 7M6 (CA). WHEELER, Jeffrey, J. [US/CA]; 6179 17A Street, Surrey, British Columbia V34 8G9 (CA). SCHERRER, Peter [CH/CA]; 2664 Birch, Vancouver, British Columbia V6H 2T5 (CA). GRAHAM, Roger [CA/CA]; 2638 West 7th Avenue, Vancouver, British Columbia V6K 1Z1 (CA).	(74) Agents: SNYDER, Joseph, R. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th floor, San Francisco, CA 94111-3834 (US). (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> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 27 April 2000 (27.04.00)	
(54) Title: LIPOSOMAL ENCAPSULATED NUCLEIC ACID-COMPLEXES (57) Abstract This invention relates to liposomes which are useful for the introduction of nucleic acids into cells. The liposomes of the present invention entrap a condensing agent-nucleic acid complex and are suitable for nucleic acid-transfer delivery vehicles in clinical use. In addition, methods of transfecting a cell with a nucleic acid using the liposomes of the present invention are also disclosed.		

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INTERNATIONAL SEARCH REPORT

Inter. Appl. No.

PCT/US 99/16166

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K9/127 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 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 95 34647 A (VANDERBILT UNIVERSITY, U.S.A.) 21 December 1995 (1995-12-21) claims 1,2,4,5,9,11,15-17,19,20,22,23,27,30	1-54
X	WO 98 20857 A (UNIVERSITY OF CALIFORNIA) 22 May 1998 (1998-05-22) claims	1-66
X,P	WO 98 34648 A (RHONE-POULENC RORER) 13 August 1998 (1998-08-13) claims	1-66
E	WO 99 58694 A (UNIVERSITY OF CALIFORNIA) 18 November 1999 (1999-11-18) claims	1-66



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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"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

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"G" document member of the same patent family

Date of the actual completion of the international search

10 March 2000

Date of mailing of the international search report

16/03/2000

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/16166

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:
Remark: Although claims 32-54 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

Inter: nal Application No

PCT/US 99/16166

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WO 9958694	A	18-11-1999	NONE		