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(54) Title: METHODS AND COMPOSITIONS FOR THE DELIVERY OF VACCINES TO DISRUPTED EPITHELIUM

(57) Abstract: The invention features immunogenic compositions and methods useful for eliciting an immune response. In preferred embodiments, papillomavirus or adenovirus vectors are used to elicit exceptionally potent antibody and T cells responses in disrupted epithelium. The methods are useful in preventing or treating a subject having a disease or an infection. In particular examples, the methods are useful for preventing or treating a viral infection.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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)
A61K 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)

EPO-Internal, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PARSONS D W ET AL: "ENHANCED IN VIVO AIRWAY GENE TRANSFER VIA TRANSIENT MODIFICATION OF HOST BARRIER PROPERTIES WITH A SURFACE-ACTIVE AGENT" HUMAN GENE THERAPY, MARY ANN LIEBERT, NEW YORK, NY, US, vol. 9, 10 December 1998 (1998-12-10), pages 2661-2672, XP000952630 ISSN: 1043-0342	1-37, 40-42
Y	the whole document	38
X	US 2003/211598 A1 (ENGLER HEIDRUN [US] ET AL) 13 November 2003 (2003-11-13) paragraphs [0002], [0009] - [0012], [0026] - [0038]; claims 1-39; examples 5-10	1-37, 40-42
Y		38

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See patent family annex.

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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.
X	<p>ROBERTS JEFFREY N ET AL: "Genital transmission of HPV in a mouse model is potentiated by nonoxynol-9 and inhibited by carrageenan" NATURE MEDICINE, vol. 13, no. 7, July 2007 (2007-07), pages 857-861, XP002537493 ISSN: 1078-8956 the whole document</p>	1,3,4,6, 16,17, 28-37
X	<p>WO 98/44944 A (MERCK & CO INC [US]; SANYAL GAUTUM [US]; VOLKIN DAVID B [US]; SHI LI []) 15 October 1998 (1998-10-15) page 4, line 25 - page 5, line 18 page 5, line 28 - page 6, line 2 page 10, line 5 - page 11, line 18 page 13, line 5 - line 16 claims 1-19; example 6</p>	1,2,6
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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