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ning of each regular issue of the PCT Gazette.*

(54) Title: HYBRID MATRICES AND HYBRID MATRIX MIXTURES

(57) Abstract: A composition having a body of matrix material made up of insoluble collagen fibrils, and disposed therewithin: a) a plurality of vertebrate cells; b) a plurality of microcarriers; and c) an agent such as a factor that promotes vascularization, a cytokine, a growth factor, or ascorbic acid. The invention also features a method of delivering a polypeptide to an animal. The method involves introducing into the animal a fluid mixture containing: a) a population of cultured vertebrate cells genetically engineered to express the polypeptide; and b) a plurality of microcarriers.



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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 A61K9/00 A61L27/24 A61L27/38 A61L27/44 A61L27/54 C07K14/61 A61K48/00
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According to International Patent Classification (IPC) or to both national classification and IPC

<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K A61L C07K
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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, EMBASE, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 15195 A (TRANSKARYOTIC THERAPIES INC) 1 May 1997 (1997-05-01)	61-78, 81-111, 113
Y	page 2, line 24 -page 7, line 13  page 10, line 14 -page 12, line 35 page 32, line 29 - line 35 page 35, line 7 -page 36, line 29 claims 1-4, 10-14, 25-27, 35, 37, 38 ---	1-60, 79, 80, 112
Y	US 5 906 817 A (HEARD JEAN-MICHEL ET AL) 25 May 1999 (1999-05-25) column 2, line 40 - line 49 column 3, line 60 -column 4, line 6 column 4, line 45 -column 5, line 10 column 6, line 4 - line 19 column 17, line 30 - line 52 claims 1-4, 7, 17, 18 --- -/--	1-60, 79, 80, 112

<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.
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° 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
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Date of the actual completion of the international search <b>20 March 2001</b>	Date of mailing of the international search report <b>03/04/2001</b>
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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  <p style="text-align: center; font-size: large;">Muller, S</p>
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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.
A	KJELL NILLSON, FERENC BUZSAKY, KLAUS MOSBACH: "Growth of anchorage-dependent cells on macroporous microcarriers" BIO/TECHNOLOGY, vol. 4, 1986, pages 989-990, XP000990412 the whole document -----	27,28

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Information on patent family members

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