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(54) Title: CYTOKINE-FREE GROWTH AND MAINTENANCE OF PROGENITOR CELLS

(57) Abstract: The invention pertains to methods and devices for the *in vitro* culture of hematopoietic progenitor cells in the absence of exogenously added hematopoietic growth factors. The hematopoietic progenitor cells are cultured in the absence of exogenously added hematopoietic growth factors without loss in cell progenitor cell numbers and/or functionality, while maintaining progenitor cell pluripotency.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/16419

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C 12 N 5/00, 02
US CL : 435/373, 375, 395

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)
U.S. : 435/373, 375, 395

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 practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/15629 A1 (CYTOMATRIX, LLC) 01 April 1999 (01.04.1999), abstract, pages 3 - 7	1 - 20
A	US 2001/0033834 A1, (WILKISON et al) 25 October 2001 (25.10.2001), entire document	1 - 20
A	US 6,084,060 A (MOORE) 04 July 2000 (04.07.2000), entire document	1 - 20
A	US 5,879,940 A (TOROK-STORB et al) 09 March 1999 (09.03.1999), entire document	1 - 20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

STN CAS, PubMed

search terms: hematopoietic, progenitor, culture, expand, serum, apparatus