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ning of each regular issue of the PCT Gazette.

(54) Title: CONDITIONALLY-IMMORTALIZED HEMATOPOIETIC PROGENITOR CELL LINES

(57) Abstract: A cell line comprising a cellular genome, wherein the cellular genome comprises a nucleic acid sequence encoding HOX11 and an inducible promoter operably linked thereto, wherein the cell line is a hematopoietic progenitor cell line, and wherein the cell line is conditionally-immortalized; a method of generating a conditionally-immortalized hematopoietic progenitor cell line; the cell line generated thereby; a method of generating erythrocytes; a method of generating granulocytes; methods of generating monocytes/macrophages, granulocytes, and megakaryocytes; a method of generating monocytes/macrophages, granulocytes, megakaryocytes, and erythrocytes; a method of performing a blood transfusion in a host; a method of determining whether or not an agent influences hematopoiesis; and a method of screening a drug candidate for an effect on a hematopoietic cell.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19356

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 5/02, 5/06, 5/18; A61K 48/00; C12Q 1/02 US CL : 435/325, 354, 377; 424/93.2; 435/29 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. : 435/325, 354, 377; 424/93.2; 435/29 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 <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 5,874,301 A (KELLER et al) 23 February 1999 (23.02.1999), especially columns 6, 15-22 and 29-31.</td> <td>1-6, 17-19 and 25-39</td> </tr> <tr> <td>Y</td> <td>US 5,837,507 A (LARGMAN et al) 17 November 1998 (17.11.1998), especially columns 2, 10, 12 and 14.</td> <td>1-6, 17-19 and 25-39</td> </tr> <tr> <td>Y</td> <td>US 5,650,298 A (BUJARD et al) 22 July 1997 (22.07.1997), especially columns 9, 15 and 17; Figure 8.</td> <td>4, 19, 29, 32 and 37</td> </tr> <tr> <td>A, P --- X, P</td> <td>HAWLEY et al. Regulatable HOX11-mediated immortalization of hematopoietic precursors from mouse embryonic stem cells. Blood. November 2003, Vol. 102, No. 11, page 167a, Abstract #582.</td> <td>1-39 ----- 1, 2, 4-7, 10-14, 16 and 20</td> </tr> <tr> <td>A</td> <td>GREZ et al. Embryonic Stem Cell Virus, a Recombinant Murine Retrovirus with Expression in Embryonic Stem Cells. Proc. Natal. Acad. Sci. USA. December 1990, Vol. 87, pages 9202-9206.</td> <td>1-39</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 5,874,301 A (KELLER et al) 23 February 1999 (23.02.1999), especially columns 6, 15-22 and 29-31.	1-6, 17-19 and 25-39	Y	US 5,837,507 A (LARGMAN et al) 17 November 1998 (17.11.1998), especially columns 2, 10, 12 and 14.	1-6, 17-19 and 25-39	Y	US 5,650,298 A (BUJARD et al) 22 July 1997 (22.07.1997), especially columns 9, 15 and 17; Figure 8.	4, 19, 29, 32 and 37	A, P --- X, P	HAWLEY et al. Regulatable HOX11-mediated immortalization of hematopoietic precursors from mouse embryonic stem cells. Blood. November 2003, Vol. 102, No. 11, page 167a, Abstract #582.	1-39 ----- 1, 2, 4-7, 10-14, 16 and 20	A	GREZ et al. Embryonic Stem Cell Virus, a Recombinant Murine Retrovirus with Expression in Embryonic Stem Cells. Proc. Natal. Acad. Sci. USA. December 1990, Vol. 87, pages 9202-9206.	1-39
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer <i>Maria J. Watt</i> Jennifer Dunston Telephone No. 571-272-0507																		

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:
EAST, MEDLINE, EMBASE, BIOSIS, CAPLUS

search terms: hox11, tlx1, tcl3, tcl-3, hematopoietic, inducible promoter, tet promoter, immortaliz\$, iebhx\$, blood transfusion,
doxycycline