

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
17 November 2005 (17.11.2005)

PCT

(10) International Publication Number
WO 2005/108559 A3

(51) International Patent Classification:
C12N 5/00 (2006.01) *C12N 5/02* (2006.01)

(21) International Application Number:
PCT/US2005/013244

(22) International Filing Date: 20 April 2005 (20.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/564,687 23 April 2004 (23.04.2004) US

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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report*

(88) Date of publication of the international search report:
3 May 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MULTI-LINEAGE PROGENITOR CELLS

(57) Abstract: Fetal blood multi-lineage progenitor cells that are capable of a wide spectrum of transdifferentiation are described.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/13244

A. CLASSIFICATION OF SUBJECT MATTER

IPC: C12N 5/00(2007.01);C12N 5/02(2007.01)

USPC: 435/325,366,372,374

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, 366,372,374

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	LAM et al., Transfusion, 2001, Vol.41, pages 1567-1576 (see entire document)	1-75
X	GOODWIN, H et al., Biology of Blood and Marrow transplantation,2001, Vol.7 pages 581-588 (see entire document)	1-75
X	RUTELLA,S et al., J of Immunology, 2003, Vol.171, pages 2977-2988 (see entire document)	1-75
X	McGUCKIN et al., Experimental Cell Research, 2004, Vol.295, pages 350-359 (see entire document)	1-75

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

☐ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search

03 November 2006 (03.11.2006) -

Date of mailing of the international search report

12 DEC 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/13244

Continuation of B. FIELDS SEARCHED Item 3:

BIOSIS, CAPLUS, SCISEARCH, MEDLINE, EMBASE, USPATFULL, PCTFULL

SEARCH TERMS: INVENTOR NAME SEARCH, MULTI-LINEAGE PROGENITOR CELLS HUMAN FETAL BLOOD, CD34, Cd133