(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 6 January 2005 (06.01.2005)

PCT

(10) International Publication Number WO 2005/001076 A3

(51) International Patent Classification⁷:

C12N 5/06

(21) International Application Number:

PCT/US2004/020816

(22) International Filing Date: 25 June 2004 (25.06.2004)

(25) Filing Language: English

English (26) Publication Language:

(30) Priority Data:

60/483,264 27 June 2003 (27.06.2003) US

(71) Applicant (for all designated States except US): ETHICON, INCORPORATED [US/US]; Rt. West, P.O. Box 151, Somerville, NJ 08876-0151 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KIHM, Anthony, J. [US/US]; 22E Chicopee Drive, Princeton, NJ 08540 (US). HARRIS, Ian, Ross [GB/US]; 42 Hudnut Lane, Belle Mead, NJ 08502 (US). MISTRY, Sanjay [GB/US]; 5 Wood Duck Pond Road, Bedminster, NJ 07921 (US). HARMON, Alexander, M. [US/US]; 17 Hillside Drive, Clinton, NJ 08890 (US). MESSINA, Darin, J. [US/US]; 11 New Street, Apt. 219, Somerville, NJ 08876 (US). SEYDA, Agnieszka [CA/US]; 1050 George Street, Apt. 16J, New Brunswick, NJ 08901 (US). YI, Chin-Feng [US/US]; 86 Beechwood Circle, Hillsborough, NJ 08844 (US). GOSIEWSKA, Anna [PL/US]; 39 Red Fox Court, Skillman, NJ 08558 (US).

- (74) Agents: REED, Janet, E. et al.; Woodcock Washburn LLP, One Liberty Place - 46th Floor, Philadelphia, PA 19103 (US).
- (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, 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, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (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, IT, 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).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 31 March 2005

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: POSTPARTUM CELLS DERIVED FROM PLACENTAL TISSUE, AND METHODS OF MAKING AND USING THE

(57) Abstract: Cells derived from postpartum placenta and methods for their isolation are provided by the invention. The invention further provides cultures and compositions of the placenta-derived cells. The placenta-derived cells of the invention have a plethora of uses, including but not limited to research, diagnostic, and therapeutic applications.

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N5/06									
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS	SEARCHED								
Minimum do	cumentation searched (classification system followed by classification C12N	n symbols)							
110 /	CIZN								
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, WPI Data, PAJ, EMBASE, MEDLINE, CHEM ABS Data									
	,	•							
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.						
Х	US 2003/032179 A1 (HARIRI ROBERT	1-39,							
^	13 February 2003 (2003-02-13)		71-73						
Υ	the whole document		40-70, 74-82						
			/4-02						
Υ	US 5 919 702 A (PURCHIO ANTHONY F	ET AL)	40-70,						
	6 July 1999 (1999-07-06) the whole document		74-82						
			_ <u>-</u>						
P,X	WO 03/068937 A (ANTHROGENESIS COR	P)	1-39, 71-73						
P,Y	21 August 2003 (2003-08-21) the whole document		40-70,						
` , `	4	74-82							
 - 									
]									
Further documents are listed in the continuation of box C. Patent family members are listed in annex.									
Special categories of cited documents:									
"A" document defining the general state of the art which is not considered to be of particular relevance "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the invention									
'E' earlier filing	document but published on or after the international date	X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to							
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another which is cited to establish the control of the cited to establish the control of the cited to establish the control of the cited to establish the cited									
citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other suc									
P docum	ent published prior to the international filing date but	in the art. *&* document member of the same patent							
L	actual completion of the international search	Date of mailing of the international search report							
17 December 2004		19/01/2005							
Name and mailing address of the ISA		Authorized officer							
	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		Rojo Romeo, E							

INTERNATIONAL SEARCH REPORT

formation on patent family members

International Application No PC1/US2004/020816

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003032179	A1	13-02-2003	US	2002123141 A1	05-09-2002
•••			CA	2476553 A1	21-08-2003
			EP	1482787 A2	08-12-2004
			WO	03068937 A2	21-08-2003
			US	2003180269 A1	25-09-2003
			US	2004048372 A1	11-03-2004
			CA	2438153 A1	22-08-2002
			ΕP	1362095 A2	19-11-2003
			JP	2004528021 T	16-09-2004
			WO	02064755 A2	22-08-2002
			ΑU	2020902 A	18-06-2002
			CA	2430989 A1	13-06-2002
			EP	1349918 A1	08-10-2003
			JP	2004523220 T	05-08-2004
			WO	0246373 A1	13-06-2002
			CA	2437957 A1	22-08-2002
			EP	1367892 A1	10-12-2003
			WO	02063962 A1	22-08-2002
			US	2002160510 A1	31-10-2002
US 5919702	Α	06-07-1999	AU	731827 B2	05-04-2001
			ΑU	4988897 A	15-05-1998
			CA	2269121 A1	30-04-1998
,			EP	0939803 A1	08-09-1999
			JР	2001502905 T	06-03-2001
			KR	2000052709 A	25-08-2000
			NZ	335531 A	29-09-2000
			WO	9817791 A1	30-04-1998
WO 03068937		21-08-2003	US	2003032179 A1	13-02-2003
			CA	2476553 A1	21-08-2003
			EP	1482787 A2	08-12-2004
			WO	03068937 A2	21-08-2003
			US	2003180269 A1	25-09-2003
			US	2004048372 A1	11-03-2004