# (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 17 April 2008 (17.04.2008)

(51) International Patent Classification: C12N 5/16 (2006.01) C12N 15/02 (2006.01)

(21) International Application Number:

PCT/US2007/081187

**(22) International Filing Date:** 12 October 2007 (12.10.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/829,347 13 October 2006 (13.10.2006) US

(71) Applicant (for all designated States except US): CENTO-COR, INC. [US/US]; 200 Great Valley Parkway, Malvern, PA 19355 (US).

(71) Applicants and

(72) Inventors: GILES-KOMAR, Jill [US/US]; 200 Great Valley Parkway, Malvern, PA 19355 (US). RYCYZYN, Michael [US/US]; 200 Great Valley Parkway, Malvern, PA 19355 (US). BANNISH, Gregory [US/US]; 200 Graet Valley Parkway, Malvern, PA 19355 (US).

(74) Agents: JOHNSON, Philip, S. et al.; Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08901 (US).

(10) International Publication Number WO 2008/046033 A3

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, LV, MC, MT, 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: 28 August 2008



International application No PCT/US2007/081187

CLASSIFICATION OF SUBJECT MATTER
NV. C12N5/16 C12N15/02 A. CLAS 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) C12N C07K 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, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Category<sup>1</sup> Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X MIYAHARA M ET AL: "COLCEMID TREATMENT OF 1,2 MYELOMA PRIOR TO CELL FUSION INCREASES THE YIELD OF HYBRIDOMAS BETWEEN MYELOMA AND SPLENOCYTE" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 124, no. 3, 1984, pages 903-908, XP009101586 ISSN: 0006-291X the whole document X Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: '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 "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "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 filing date 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) 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 docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed \*&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 16 June 2008 04/07/2008 Authorized officer 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 Kalsner, Inge

International application No
PCT/US2007/081187

010 11	,	PC1/US200	7/7 00110/				
C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
X	DATABASE WPI Derwent Publications Ltd., London, GB; AN 1984-111165 [18] XP002484372 ABE T: "Hybridisation of cell strains - wherein initial cultivation is carried out		1,2,4,5				
	in presence of cell growth inhibitor" & JP 59 051791 A (ASAHI CHEM IND CO LTD) 26 March 1984 (1984-03-26) abstract						
<b>A</b> ·	KUES W A ET AL: "CELL CYCLE SYNCHRONIZATION OF PORCINE FETAL FIBROBLAST: EFFECTS OF SERUM DEPRIVATION AND REVERSIBLE CELL CYCLE INHIBITORS" BIOLOGY OF REPRODUCTION, SOCIETY FOR THE STUDY OF REPRODUCTION, CHAMPAIGN, IL, US,		1-6				
-	vol. 62, no. 2, 1 January 2000 (2000-01-01), pages 412-419, XP000920566 ISSN: 0006-3363 abstract						
A	YABE N ET AL: "Enhanced formation of mouse hybridomas without hat treatment in a serum-free medium" IN VITRO CELLULAR AND DEVELOPMENTAL BIOLOGY, THE ASSOCIATION, GAITHERSBURG,		1-6				
	MD, US, vol. 22, no. 7, 1 July 1986 (1986-07-01), pages 363-368, XP009101527 ISSN: 0883-8364 the whole document						
<b>A</b>	KUDO T ET AL: "A GREAT IMPROVEMENT OF FUSION EFFICIENCY IN MOUSE B CELL HYBRIDOMA PRODUCTION BY USE OF THE NEW CULTURE MEDIUM GIT" TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE,		1-6				
	vol. 153, no. 1, 1987, pages 55-66, XP002484370 ISSN: 0040-8727 the whole document						
<b>A</b>	STADLER J K ET AL: "CELL CYCLE CHANGES AND THE ABILITY OF CELLS TO UNDERGO VIRUS INDUCED FUSION" PROCEEDINGS OF THE NATIONAL ACADEMY OF		1-6				
	SCIENCES OF THE UNITED STATES OF AMERICA, vol. 69, no. 7, 1972, pages 1929-1933, XP002484371 ISSN: 0027-8424						
٠	abstract						

International application No
PCT/US2007/081187

		PCT/US200	//08118/
C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	KAWAMOTO T ET AL: "DEVELOPMENT OF A SERUM-FREE MEDIUM FOR GROWTH OF NS-1 MOUSE MYELOMA CELLS AND ITS APPLICATION TO THE ISOLATION OF NS-1 HYBRIDOMAS" ANALYTICAL BIOCHEMISTRY, vol. 130, no. 2, 1983, pages 445-453,		1-6
	XP009101589 ISSN: 0003-2697 abstract		
			-
		•	
		÷	
	£	•	
	• •		
•			

Information on patent family members

International application No
PCT/US2007/081187

Patent document cited in search report	11. 71.	Publication date	<u>-</u>	Patent family member(s)	101,7002	Publication date	
JP 59051791	A	26-03-1984	NONE				,
		·					•
•							
							: