(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 24 February 2005 (24.02.2005)

PCT

(10) International Publication Number $WO\ 2005/017125\ A3$

(51) International Patent Classification⁷: C12N 7/00

(21) International Application Number:

PCT/US2004/026720

(22) International Filing Date: 16 August 2004 (16.08.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/495,078

14 August 2003 (14.08.2003) U

- (71) Applicant (for all designated States except US): CALIFORNIA INSTITUTE OF MOLECULAR MEDICINE [US/US]; 1710 Donlon Street, Unit #6, Ventura, California 93003 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): SALAHUDDIN, Syed

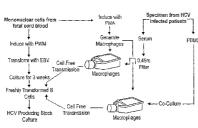
Zaki [US/US]; 1710 Donlon Street, Unit #6, Ventura, California 93003 (US).

- (74) Agents: FANG, Carol, A. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, California 94111 (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, 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),

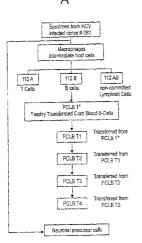
[Continued on next page]

(54) Title: METHOD FOR ISOLATION AND REPLICATION OF INFECTIOUS HUMAN HEPATITIS-C VIRUS

(57) Abstract: The present invention provides methods and compositions for replicating infectious Hepatitis C virus in vitro.



Α



В

WO 2005/017125 A3



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).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

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:

18 August 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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/26720

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 7/00 US CL : 435/6, 235.1, 366			
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.: 435/6, 235.1, 366			
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)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	opropriate, of the relevant passages	Relevant to claim No.
X	US 5,697,342 (HOUGHTEN et al.) 21 October 1997 (27.10.1997), column 2, lines 45-50.		37-39
Y			1-11, 15-26, 30-36
Y	US 6,630,343 B1 (BARTENSCHLAGER) 07 Octobe 11-37.	er 2003 (03.10.2003), column 3, lines	1-11, 15-26, 30-36
Further	documents are listed in the continuation of Box C.	See patent family annex.	
* S	pecial categories of cited documents:	"T" later document published after the inter date and not in conflict with the applica	
	defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inven "X" document of particular relevance; the c	ation .
	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the c considered to involve an inventive step with one or more other such documents	when the document is combined
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art	, sada vemenanda semb
"P" 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	
11 February 2005 (11.02.2005)		D 8 JUL 2005	
Name and mailing address of the ISA/US		Authorized officer – LUUJ	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Timothy M. Brown	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. (571) 272-0773	
	. (703) 305-3230	, , , , , , , , , , , , , , , , , , , ,	

Form PCT/ISA/210 (second sheet) (July 1998)