MARY BOUG PRINTO - V CEB 5008

Form PTO-1595 (Rev. 03-05) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMM United States Patent and Trademark
02-2	5_2009
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To the Director of the U.S. Patent and	ents or the new address(es) belo
1. Name of conveying party(ies): 1034	83804 f receiving party(ies)
Takahiro MARUI (11/26/2007), Kinuko	Name: TAKARA BIO INC.
NAGAMINE (11/26/2007), Nobuko MURAKI	
(11/26/2007), Akiko KATO (11/26/2007),	Internal Address:
Additional name(s) of conveying party(ies) attached? X Yes No	Street Address:
3. Nature of conveyance/Execution Date(s):	4-1, Seta 3-chome
Execution Date(s): in parentheses after inventor name	Otsu-shi, Shiga 520-2193
x Assignment Merger Change of Name	JAPAN
Security Agreement Joint Research Agreement	City:
Government Interest Assignment	State:
Executive Order 9424, Confirmatory License	Country: Zip:
Other	Additional name(s) & address(es) Yes X No
	- attached:
Additional numbers attached	d? Yes X No
	f? Yes X No 6. Total number of applications and patents involved:
5. Name and address to whom correspondence	6. Total number of applications and
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH,	6. Total number of applications and patents involved:
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1	6. Total number of applications and patents involved:
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road Suite 100 East	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed
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5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road Suite 100 East P.O. Box 747 City: Falls Church	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed None required (government interest not affecting
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road Suite 100 East P.O. Box 747 City: Falls Church State: VA Zip: 22040-0747	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed None required (government interest not affecting) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road Suite 100 East P.O. Box 747 City: Falls Church State: VA Zip: 22040-0747 Phone Number: (703) 205-8000	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed None required (government interest not affecting) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 02-2448
5. Name and address to whom correspondence concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1422-0757PUS1 Street Address: 8110 Gatehouse Road Suite 100 East P.O. Box 747 City: Falls Church State: VA Zip: _22040-0747 Phone Number: (703) 205-8000	6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed None required (government interest not affecting) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date
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Form PTO-1595	RECORI	CONTINUED (CONTINUED)			
Additional Convey	/ing Party(ies)/Exec	ution Date(s) (1. Continued):	:		
Tatsuji ENOKI (11/26/2007), Hiroaki SAGAWA (11/26/2007), and Ikunoshin KATO (11/26/2007)					
Additional Assigne	ees (2. Continued):				
Assignee Name: Internal Address: Street Address:					
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Assignee Name: Internal Address: Street Address:					
City:	State:	Country:	Zip:		
Assignee Name: Internal Address: Street Address:					
City:	State:	Country:	Zip:		
Additional Applications and/or Patents (4. Continued):					
Additional Patent Application 4A. Continued:	on Numbers	Additional Patent Numbers 4B. Continued:			
	Additional numbers	attached? Yes N	0		

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Docket No.: 1422-0757PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

	Application No.	NEW			Filed <u>2/14/08</u>	
nsert Name(s) f Inventor(s)		***(FAMILY NA	AME (ALL CAPS), Given Na	me)***		
	WHER	EAS,	MARUI, Takahiro	;	NAGAMINE, Kinu	ıko
	MURAKI,	Nobuko	; KATO, Akiko	;	ENOKI, Tatsuji	
	SAGAWA,	Hiroaki	; KATO, Ikunoshin	;		
			;	;		
			;	;		
			;			
			<u>;</u>	;		
	(hereinafter desig	gnated as the unders	signed) has (have) invented certa	in new and u	seful improvements in	ı
nsert Title METHOD OF PRODUCING LYMPHOCYTES f Invention			OCYTES			
			rs Patent of the United States provisional application).	of America	has been executed by	y the
nsert Date f Signing of pplication	Novembe	er 26, 2007,	November 26, 2007, November 26,	ovember 2 ovember 2	26, 2007, 26, 2007,	; and
nsert Name f Assignee	WHER	EAS,	TAKARA BIO INC.			
nsert Address f Assignee	of4-1	., Seta 3-cho	ome, Otsu-shi, Shiga	520-2193	Japan	
CHECK BOX APPROPRIATE	acquiring the ent	ire right, title and in therefor in the Unite	atives and assigns (hereinafter de interest in and to said invention ad States of America and	esignated as t and in and to	he Assignee) is desiron any Letters Patent(s)	us of) that
	the receipt of whas (have) sold, Assignee the ful dependencies an which may be possessions, and	aich is hereby ackn assigned and trans I and exclusive rig d possessions and granted therefor if the box above is	ion of the sum of Ten Dollars (\$ nowledged, and other good and seferred, and by these presents of the to the said invention in the Uthe entire right, title and interest in the United States of Ame designated, in any and all foreignes, continuations, conversions and	valuable consides sell, associated States tin and to aurica, its term on countries;	sideration, the undersi- sign and transfer unto of America, its territo ny and all Letters Pate ritories, dependencies	igned said ories, ent(s) and
	and to any and a terms for which	il divisions, reissue the same may be gr	anted.	- CALUMOIONIO		

Page 1 of <u>3</u>

PATENT REEL: 020565 FRAME: 0928 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Nov. 26. 2007,	Name of Inventor Tahaher Manui (signature) MARUI, Takahiro
Date	NOV. 26, 2007	Name of Inventor Kinuko Nagamine (signature) NAGAMINE, Kinuko
Date	Nov 26,2007,	Name of Inventor Noluko Muraki, Nobuko
Date	Nov. 26. 2007	Name of Inventor (signature) KATO, Akiko
Date	Nov. 26, 2007	Name of Inventor Jatsuy Enoki, Tatsuji
Date	Nov 26.2007,	Name of Inventor (signature) SAGAWA, Hiroaki

Page 2 of 3

January 2002

PATENT REEL: 020565 FRAME: 0929

Date NOV. 26, 2009	Name of Inventor	(signature) KATO, Ikunoshin
Date,	Name of Inventor	(signature)
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Date,	Name of Inventor	(signature)
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