@PFDesktop\::ODMA/MHODMA/HBSR05;iManage;476753;1	06-09-2004
RECORDATION PATI	E
To the Director of the U.S. Patent and Tradenary of	fic. 1 case 102761590
1. Name of conveying party(ies) JUN -7 AM 9: 55	Name and address of receiving party(ies)
1. Bing Guan FINANCE SECTION	Name: Millennium Pharmaceuticals, Inc.
 2. Charles Minor 3. Mingshi Dai 4. Shomir Ghosh 5. Tracy J. Jenkins 	Internal Address:
Additional name(s) of conveying party(ies) attached? [X] Yes [] No	
3. Nature of conveyance:	Street Address: 40 Landsdowne Street
[X] Assignment [] Merger	
[] Security Agreement [] Change of Name	City: Cambridge State: MA ZIP: 02139
[] Other	
Execution Date: 1,2 (3/10/04); 3,6, (3/17/04); 4 (3/12/04); 5 (3/16/04); 7,8, (3/15/04)	Additional name(s) & address(es) attached? [] Yes [X] No
10/744/585 Additional number	rs attached? [] Yes [X] No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: [1]
Name: Steven G. Davis, Esq	7. Total Fee (37 C.F.R. 3.41)\$ 40.00
Internal Address:	[X] Enclosed
Hamilton, Brook, Smith & Reynolds, P.C.	[X] Authorized to charge any deficiencies or credit any overpayment to deposit account number 08-0380
Street Address: 530 Virginia Road, P.O. Box 9133	[] Authorization to charge deposit account number 08-0380
City: Concord State: MA ZIP: 01742-9133	Attach a copy of this page if paying by deposit account and filing via mail. Do not attach a copy of this page if paying by deposit account and filing via facsimile.
DO NO	T USE THIS SPACE
Mame of Person Signing OB/2004 GTOH11 00000035 10744585	Signature Signature
Total number of pages including of @PFDesktop\::ODMA/MHODMA/HBSR05;manage;476753;1	over sheet, attachments, and document: [50]

Docket No.: <u>1855.2047-001</u>

RECORDATION FORM COVER SHEET

Continuation of Box 1

- 6. Gang Li
- 7. Douglas F. Burdi
- 8. Robert A. Bennett

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Joint

ASSIGNMENT

WHEREAS, we, Bing Guan, Charles Minor, Mingshi Dai, Shomir Ghosh, Tracy J. Jenkins, Gang Li, Douglas F. Burdi, and Robert A. Bennett, have invented a certain improvement in CCR8 INHIBITORS described in an application for Patent,

[]	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for 37 CFR §1.53(b) filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[]	the specification of which is United States Application No. 10/744,585, filed on December 23, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, Millennium Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 40 Landsdowne Street, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

Docket No. 1855.2047-001

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	Delle Marie
State/Commonwealth	Bing Guan
of MassachuseHs	
County of Middlesox	
	efore me the above-named Bing Guan and acknowledged that ng instrument as his/her free act and deed this 10th day

Inventor's Signature:		
	Charles	Minor
State/Commonwealth		
of		
County of		
	ng instrument as his/her free act	rles Minor and acknowledged that and deed this day
(SEAL)		Notary Public
		(print name)
	My Commission expires	
Inventor's Signature:		
	Mingsh	ni Dai
State/Commonwealth	ð	
of		
County of		
Then personally appeared be he/she executed the foregoin of	ng instrument as his/her free act	shi Dai and acknowledged that and deed this day Notary Public (print name)

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Inventor's Signature	e:	
G /G		mir Ghosh
State/Commonweal		
	M	
County of		
he/she executed the	peared before me the above-named strong foregoing instrument as his/her free, 20	Shomir Ghosh and acknowledged that act and deed this day
(SEAL)		Notary Public
		(print name)
	My Commission expires	
Inventor's Signature	:	
-		y J. Jenkins
State/Commonweal		
County of		
that he/she executed	peared before me the above-named The the foregoing instrument as his/her, 20	
(SEAL)		Notary Public
		(print name)
	My Commission expires	

-	
Inventor's Signature:	
State/Commonwealth of	Gang Li
County of	
	d before me the above-named Gang Li and acknowledged that he/she astrument as his/her free act and deed this day of
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	
State/Commonwealth	Douglas F. Burdi
of	
County of	
	d before me the above-named Douglas F. Burdi and acknowledged foregoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:	
State/Commonwealth	Robert A. Bennett
of	
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	regoing instrument as his/her free act and deed this, 20
	Notary Public
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Inventor's Signature:	
State/Commonwealth	Bing Guan
of	
County of	
	before me the above-named Bing Guan and acknowledged that ng instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:	Chone Anti-
	Charles Minor
State/Commonwealth	
of Massachusetts	
County of Middlesey	<u> </u>
County of Macroscop	
he/she executed the foregoi	refore me the above-named Charles Minor and acknowledged that ng instrument as his/her free act and deed this
Inventor's Signature:	
Inventor's Signature:	Mingshi Dai
Inventor's Signature: State/Commonwealth	Mingshi Dai
State/Commonwealth	
State/Commonwealth of	
State/Commonwealth of	
State/Commonwealth of County of Then personally appeared b	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day
State/Commonwealth of County of Then personally appeared b he/she executed the foregoin	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day, 20 Notary Public
State/Commonwealth of County of Then personally appeared b he/she executed the foregoin	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day, 20 Notary Public
State/Commonwealth of County of Then personally appeared b he/she executed the foregoin	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day, 20 Notary Public (print name)
State/Commonwealth of County of Then personally appeared b he/she executed the foregoin	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day, 20 Notary Public
State/Commonwealth of County of Then personally appeared b he/she executed the foregoin	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day, 20 Notary Public (print name)

Inventor's Signature:	
State/Commonwealth	Shomir Ghosh
of	
County of	
	red before me the above-named Shomir Ghosh and acknowledged that regoing instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
_	Tracy J. Jenkins
State/Commonwealth	
County of	
	red before me the above-named Tracy J. Jenkins and acknowledged e foregoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
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Inventor's Signature:	
State/Commonwealth	Gang Li
of	
County of	
	d before me the above-named Gang Li and acknowledged that he/she astrument as his/her free act and deed this day of, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	
	Douglas F. Burdi
State/Commonwealth	
of	-
County of	
	before me the above-named Douglas F. Burdi and acknowledged foregoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:	Robert A. Bennett
State/Commonwealth	
of	<u></u>
County of	
	before me the above-named Robert A. Bennett and acknowledged oregoing instrument as his/her free act and deed this
Then personally appeare that he/she executed the day of	before me the above-named Robert A. Bennett and acknowledged oregoing instrument as his/her free act and deed this, 20
Then personally appeare that he/she executed the	before me the above-named Robert A. Bennett and acknowledged oregoing instrument as his/her free act and deed this
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Inventor's Signature:	
State/Commonwealth	Bing Guan
o <u>f</u>	
County of	
	efore me the above-named Bing Guan and acknowledged that ng instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:	
-	Charles Minor
State/Commonwealth	
of	
County of	
	before me the above-named Charles Minor and acknowledged that ing instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
	wy Commission expires//
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Inventor's Signature:	- 335
94 4 49	Mingshi Dai
State/Commonwealth	//
of Massachus	ells
County of Middle	sex
he/she executed the foregoing	pefore me the above-named Mingshi Dai and acknowledged that ing instrument as his/her free act and deed this/7 day day

Inventor's Signature:	
State/Commonwealth	Shomir Ghosh
of	
County of	
	d before me the above-named Shomir Ghosh and acknowledged that going instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
	Tracy J. Jenkins
State/Commonwealth	
of	
County of	
	before me the above-named Tracy J. Jenkins and acknowledged oregoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventor's Signature:	
	Gang Li
State/Commonwealth	
of	
County of	
	before me the above-named Gang Li and acknowledged that he/she trument as his/her free act and deed this day of, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	
State/Commonwealth	Douglas F. Burdi
of	
County of	
	regoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventor's Signature:	-
	Robert A. Bennett
State/Commonwealth	
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a . a	
	before me the above-named Robert A. Bennett and acknowledged bregoing instrument as his/her free act and deed this, 20
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Inventor's Signature:	
State/Commonwealth	Bing Guan
of	
County of	
	efore me the above-named Bing Guan and acknowledged that ng instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:		
	C	Charles Minor
State/Commonwealth		
of		
County of		
Then personally appeared he/she executed the foreg	oing instrument as his/her f	d Charles Minor and acknowledged that ree act and deed this day
(SEAL)		Notary Public
		(print name)
	My Commission expire	
	,	
Inventor's Signature:		
		Mingshi Dai
State/Commonwealth		
of		-
County of		
	oing instrument as his/her fi	d Mingshi Dai and acknowledged that ree act and deed this day
(SEAL)		Notary Public
		(print name)
	My Commission expires	·/
	_	_

Inventor's Signature:	Shorun Bhoth.
State/Commonwealth	Shomir Ghosh
of Marsachusel	
of Consacruser	
County of Middles	ex
he/she executed the foregoi ofMarch	α α
(SEAL)	_ Clar Streng Notary Public
	ANN SHERRY (print name)
	My Commission expires <u>04 19 07</u>
Inventor's Signature:	
Inventor's Signature: State/Commonwealth	Tracy J. Jenkins
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State/Commonwealth	
State/Commonwealth of County of Then personally appeared be	efore me the above-named Tracy J. Jenkins and acknowledged egoing instrument as his/her free act and deed this
State/Commonwealth of County of Then personally appeared be that he/she executed the fore	efore me the above-named Tracy J. Jenkins and acknowledged egoing instrument as his/her free act and deed this
State/Commonwealth of County of Then personally appeared be that he/she executed the foreday of	efore me the above-named Tracy J. Jenkins and acknowledged egoing instrument as his/her free act and deed this Notary Public
State/Commonwealth of County of Then personally appeared be that he/she executed the foreday of	efore me the above-named Tracy J. Jenkins and acknowledged egoing instrument as his/her free act and deed this, 20 Notary Public

	-
Inventor's Signature:	
State/Commonwealth	Gang Li
of	
County of	
	d before me the above-named Gang Li and acknowledged that he/she astrument as his/her free act and deed this day of, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	
— —	Douglas F. Burdi
State/Commonwealth	
of	
County of	
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(SEAL)	Notary Public
	(print name)
	My Commission expires//

	<u>-</u>
Inventor's Signature:	
	Robert A. Bennett
State/Commonwealth	
of	
County of	
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Docket No. 1855,2047-001

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature	: :		
State/Commonweal		Bing Guan	4
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he/she executed the	peared before me the aborderegoing instrument as, 20	ove-named Bing Guan and acknowledged to shis/her free act and deed this	that day
(SEAL)		Notary Public	
		(print name)	
	My Commissi	on expires//	

Inventor's Signature:	
0	Charles Minor
State/Commonwealth	
of	**************************************
County of	
Then personally appeared he/she executed the foregof	d before me the above-named Charles Minor and acknowledged that going instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth	Mingshi Dai
of	
County of	
Then personally appeared	before me the above-named Mingshi Dai and acknowledged that oing instrument as his/her free act and deed this day
(SEAL)	Notary Public
(SEAL)	Notary Public (print name)
(SEAL)	

Inventor's Signature:			
State/Commonwealth			r Ghosh
of		· · · · · · · · · · · · · · · · · · ·	
County of			
Then personally appear he/she executed the for of	egoing instrumen	nt as his/her free ac	mir Ghosh and acknowledged that t and deed this day
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Inventor's Signature:	Un	995	6
State/Commonwealth	/	Tracy J.	Jenkins
of MASSACHUSE			
County of MIDDLE	SEX		
Then personally appeare that he/she executed the day of MARCH	ed before me the e foregoing instru	ment as his/her fre	ey J. Jenkins and acknowledged act and deed this(b+c)
(SEAL)	Sixina Vivarnia	Lee Hawkes	Notary Public (print name)
	My Commi	ssion expires	6/13/08

Inventor's Signature:	
State/Commonwealth	Gang Li
County of	
	d before me the above-named Gang Li and acknowledged that he/she nstrument as his/her free act and deed this day of, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires //
Inventor's Signature:	
-	Douglas F. Burdi
State/Commonwealth	Douglas F. Burdi
of	Douglas F. Burdi
State/Commonwealth of County of Then personally appeared	Douglas F. Burdi d before me the above-named Douglas F. Burdi and acknowledged foregoing instrument as his/her free act and deed this
State/Commonwealth of County of Then personally appeared that he/she executed the day of	Douglas F. Burdi d before me the above-named Douglas F. Burdi and acknowledged foregoing instrument as his/her free act and deed this Notary Public
State/Commonwealth of County of Then personally appeared that he/she executed the	Douglas F. Burdi d before me the above-named Douglas F. Burdi and acknowledged foregoing instrument as his/her free act and deed this

Inventor's Signature:	Robert A. Bennett
State/Commonwealth	1
of	
County of	
that he/she executed t	ared before me the above-named Robert A. Bennett and acknowledged the foregoing instrument as his/her free act and deed this, 20
that he/she executed t	the foregoing instrument as his/her free act and deed this
that he/she executed t day of	the foregoing instrument as his/her free act and deed this, 20

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ASSIGNMENT

WHEREAS, we, Bing Guan, Charles Minor, Mingshi Dai, Shomir Ghosh, Tracy J. Jenkins, Gang Li, Douglas F. Burdi, and Robert A. Bennett, have invented a certain improvement in CCR8 INHIBITORS described in an application for Patent,

[]	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for 37 CFR §1.53(b) filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[]	the specification of which is United States Application No. 10/744,585, filed on December 23, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, Millennium Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 40 Landsdowne Street, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

Docket No. 1855.2047-001

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	
State/Commonwealth	Bing Guan
of	
County of	
	efore me the above-named Bing Guan and acknowledged that day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventoria Cianatura	
Inventor's Signature:	
State/Commonwealth	Charles Minor
of	
County of	
Then personally appeared by	before me the above-named Charles Minor and acknowledged that ing instrument as his/her free act and deed this day
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth	Mingshi Dai
of	
County of	
Then personally appeared b he/she executed the foregoin of	efore me the above-named Mingshi Dai and acknowledged that ng instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventor's Signature:	
	Shomir Ghosh
State/Commonwealth	
of	
County of	
	before me the above-named Shomir Ghosh and acknowledged that ng instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State / C a	Tracy J. Jenkins
State/Commonwealth	
of	
County of	
	refore me the above-named Tracy J. Jenkins and acknowledged regoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventor's Signature:	
	Gang Li
State/Commonwealth	A .
of Massachus	M.
01 Mustachus	
County of / hadle	sex
Then personally appeared b	before me the above-named Gang Li and acknowledged that he/she
executed the foregoing inst	rument as his/her free act and deed this/ 7 /2 day of
March	, 20 <u>04</u> .
	$\Omega = \Omega = \Omega$
(SEAL)	Motary Public
	ANN SHERRY (print name)
	My Commission expires 4/19/07
	wy Commission expires $-\frac{7}{7}$
Inventor's Signature:	
	Douglas F. Burdi
State/Commonwealth	
of	
County of	
Then personally appeared b	efore me the above-named Douglas F. Burdi and acknowledged
	egoing instrument as his/her free act and deed this
day of	, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/

Inventor's Signature:		
State/Commonwealth of		bert A. Bennett
* * * *	egoing instrument as his/	ed Robert A. Bennett and acknowledged her free act and deed this
(SEAL)		Notary Public
		(print name)
	My Commission expire	es/
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ASSIGNMENT

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[]	the specification of which is United States Application No. 10/744,585, filed on December 23, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, Millennium Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 40 Landsdowne Street, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signatu	e:
State/Commonwe	Bing Guan
he/she executed the	peared before me the above-named Bing Guan and acknowledged that foregoing instrument as his/her free act and deed this de
he/she executed the of	foregoing instrument as his/her free act and deed this de
he/she executed the	foregoing instrument as his/her free act and deed this do

Inventor's Signature:	
State/Commonwealth	Charles Minor
of	
County of	
	d before me the above-named Charles Minor and acknowledged that going instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	· ·-
	Mingshi Dai
State/Commonwealth	
of	
County of	
	before me the above-named Mingshi Dai and acknowledged that oing instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires //
	iviy Commission capites / /

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Inventor's Signature:		
State/Commonwealth	h	mir Ghosh
of		
Then personally appe he/she executed the for	oregoing instrument as his/her free	homir Ghosh and acknowledged that act and deed this day
(SEAL)		Notary Public
		(print name)
	My Commission expires _	
Inventor's Signature:		
State/Commonwealth		J. Jenkins
		-
that he/she executed t	ared before me the above-named Translated he foregoing instrument as his/her f, 20	racy J. Jenkins and acknowledged free act and deed this
(SEAL)		Notary Public
		(print name)
	My Commission expires	

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Inventor's Signature:	
State/Commonwealth	Gang Li
of	
County of	
	before me the above-named Gang Li and acknowledged that he/she trument as his/her free act and deed this day of _, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	Drugher & Sund.
State/Commonwealth	V Douglas F. Burdi
of MASSACHUSETT	3
County of MIDDLES	
that he/she executed the forday of	pefore me the above-named Douglas F. Burdi and acknowledged regoing instrument as his/her free act and deed this
(SEAL)	Vivainia Lee Hawkes (print name)
	My Commission expires 06 / 13 / 08

Inventor's Signature:	-
State/Commonwealth	Robert A. Bennett
of	
County of	
	pefore me the above-named Robert A. Bennett and acknowledged regoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires/
	_

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ASSIGNMENT

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[]	is about to be filed in the United States Patent Office as a Provisional Application
[]	the specification of which is United States Application No. 10/744,585, filed on December 23, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].
WHE	REAS, Millennium Pharmaceuticals, Inc. (hereinafter "ASSIGNEE") a

WHEREAS, Millennium Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 40 Landsdowne Street, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements. treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature	
State/Commonweal	Bing Guan Ith
of	
County of	
he/she executed the	peared before me the above-named Bing Guan and acknowledged that foregoing instrument as his/her free act and deed this day, 20
he/she executed the	foregoing instrument as his/her free act and deed this day
he/she executed the of	foregoing instrument as his/her free act and deed this day, 20

Inventor's Signature:	
	Charles Minor
State/Commonwealth	
of	
County of	
	d before me the above-named Charles Minor and acknowledged the going instrument as his/her free act and deed this day, 20
(SEAL)	Notary Public
	(print name)
	Mr. Commission against
	My Commission expires / /
	My Commission expires//
Inventor's Signature:	
State/Commonwealth	Mingshi Dai
Inventor's Signature: State/Commonwealth of County of	Mingshi Dai
State/Commonwealth of County of Then personally appeare	Mingshi Dai d before me the above-named Mingshi Dai and acknowledged that going instrument as his/her free act and deed this day
State/Commonwealth of County of Then personally appeare he/she executed the foregof	Mingshi Dai d before me the above-named Mingshi Dai and acknowledged that going instrument as his/her free act and deed this day
State/Commonwealth of County of Then personally appeare he/she executed the forest	Mingshi Dai d before me the above-named Mingshi Dai and acknowledged that going instrument as his/her free act and deed this day, 20

Shomir Ghosh State/Commonwealth of County of Then personally appeared before me the above-named Shomir Ghosh and ach he/she executed the foregoing instrument as his/her free act and deed this of (SEAL)		•
State/Commonwealth of County of Then personally appeared before me the above-named Shomir Ghosh and ach he/she executed the foregoing instrument as his/her free act and deed this of, 20 (SEAL) Notary Public	Inventor's Signature:	
County of	State/Commonwealth	Shomir Ghosh
Then personally appeared before me the above-named Shomir Ghosh and acl he/she executed the foregoing instrument as his/her free act and deed this		
Then personally appeared before me the above-named Shomir Ghosh and ach he/she executed the foregoing instrument as his/her free act and deed this of (SEAL)		
Inventor's Signature: Tracy J. Jenkins State/Commonwealth of County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this	Then personally appeared he/she executed the forego	before me the above-named Shomir Ghosh and acknowledged that bing instrument as his/her free act and deed this day
Inventor's Signature: Tracy J. Jenkins State/Commonwealth of County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this	(SEAL)	Notary Public
Inventor's Signature: Tracy J. Jenkins State/Commonwealth of County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this		
Inventor's Signature: Tracy J. Jenkins State/Commonwealth of County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this		
State/Commonwealth of County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this	Inventor's Signature:	
County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this	Stata/Commonwealth	Tracy J. Jenkins
County of Then personally appeared before me the above-named Tracy J. Jenkins and a that he/she executed the foregoing instrument as his/her free act and deed this		
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(SEAL) Notary Public	(SEAL)	Notary Public
(print name)		
My Commission expires / /		My Commission expires / /

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Inventor's Signature:	
State/Commonwealth	Gang Li
of	
Then personally appeare executed the foregoing in	d before me the above-named Gang Li and acknowledged that he/she nstrument as his/her free act and deed this day of, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	Dougles F. Dougl
State/Commonwealth	Douglas F. Burdi
of	
County of	
	d before me the above-named Douglas F. Burdi and acknowledged foregoing instrument as his/her free act and deed this, 20
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventor's Signature:	Robert	ABo	eaut		
G /G	,	Robert A. B	Bennett		
State/Commonwealth					
of MASSACHUSETIS		_			
County of MIDDLESEX					
Then personally appeared before me the above-named Robert A. Bennett and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this/Sday of, 20_04					
(SEAL) Viva	vinia lectan	awhes hes	Notary Public (print name)		
My	Commission ex	pires <u>O(e</u>	13/08		

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PATENT REEL: 015420 FRAME: 0050

RECORDED: 06/07/2004