PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Robert Schlegel	09/12/2002
Yan Chen	09/06/2002
Xumei Zhao	09/10/2002
John E. Monahan	09/06/2002
Shubhangi Kamatkar	04/01/2004
Manjula Gannavarapu	09/09/2002
Karen Glatt	09/10/2002
Sebastian Hoersch	09/16/2002

RECEIVING PARTY DATA

Name:	Millennium Pharmaceuticals, Inc.	
Street Address:	40 Landsdowne Street	
City:	Cambridge	
State/Country:	MASSACHUSETTS	
Postal Code:	02139	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12814849

CORRESPONDENCE DATA

Fax Number: (617)607-9200

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Correspondent Name: Maria Laccotripe Zacharakis, Ph.D., J.D.

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Address Line 2: McCarter & English, LLP

Address Line 4: Boston, MASSACHUSETTS 02110

PATENT

REEL: 024531 FRAME: 0302

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ATTORNEY DOCKET NUMBER:	117742-03504	
NAME OF SUBMITTER:	Maria Laccotripe Zacharakis, Ph.D., J.D.	
Total Attachments: 9 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page8.tif source=Assignment#page9.tif		

PATENT REEL: 024531 FRAME: 0303

ASSIGNMENT

We, Robert Schlegel of Auburndale, Massachusetts, Yan Chen of Cambridge, Massachusetts, Xumei Zhao of Burlington, Massachusetts, John E. Monahan of Walpole, Massachusetts, Shubangi Kamatkar of Newton, Massachusetts, Manjula Gannavarapu of Acton, Massachusetts, Karen Glatt of Natick, Massachusetts, and Sebastian Hoersch of Arlington, Massachusetts, in consideration of One Dollar and other valuable consideration paid to us by

Millennium Pharmaceuticals, Inc.

a corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, MA 02109, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Millennium Pharmaceuticals, Inc.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

NOVEL GENES, COMPOSITIONS, KITS AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER

described	in	an	app]	lication
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	executed by	us of even d	ate herewith	n and about to be filed
X	Serial No.	10/171,311	, filed on	June 12, 2002

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

PATENT REEL: 024531 FRAME: 0304

WITNESS my hand and seal this $\times 12^{1/2}$ day of	September, 2002.
	By: X M Subleys Robert Schlegel
State of Mossochosetts	
State of Mossochasetts)ss County of Middleselx	
Then personally appeared the above named Robert instrument to be his/her free act and deed, before me, this _	Schlegel and acknowledged the foregoing day of, 2002.
	Mary Public
WITNESS my hand and seal this day of	My commission expires: NASIM G. MEMON Notary Public Commonweath of Massachusetts My Compission Expires , 2 May 1, 2009
	By:Yan Chen
State of)	
County of)	
Then personally appeared the above named Yan instrument to be his/her free act and deed, before me, this _	Chen and acknowledged the foregoing day of, 2002.
	Notary Public
	My commission expires:

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WIINESS III	y nand and seal this	
		Ву:
		By: Robert Schlegel
State of	`	
State of)ss	
County of)	
Then personal instrument to be his/	ally appeared the above name ther free act and deed, before	ed Robert Schlegel and acknowledged the foregoing me, this day of, 2002.
-		
		Notary Public
		My commission expires:
WITNESS m	y hand and seal this∠ 6t	By: X Janelo Yan Chen
State of Moss	servisetti Jeses deses	
County of Mid	desex	
Then personationstrument to be his/l	ally appeared the above na her free act and deed, before	med Yan Chen and acknowledged the foregoing me, this day of 2002.
		Notary Public
		My commission expires: May loc
		NASIM G. MEMON Notary Public Commonwealth of Massachusetts My Commission Expires

WITNESS my l	hand and seal this $ imes 10$	day of X September, 2002.
		By: Xumej Zhao
State of Mossian County of Middle	esex	
Then personally	y appeared the above na	amed Xumei Zhao and acknowledged the foregoing re me, this, 2002.
		Notary Public May 1,0009
WITNESS my l	nand and seal this	My commission expires: NASIM G. MEMON Notary Public Commonwealth of Massachusetts
		By: James E. Monahan
State of County of))ss —————————————————————————————————	
Then personall foregoing instrument to , 2002.	y appeared the above be his/her free act and d	named James E. Monahan and acknowledged the leed, before me, this day of
		Notary Public My commission expires:

WIINESS my hand	and seal this day of	, 2002.	
		n	
		By: Xumei Zhao	·
		Aumei Zhao	
State of)		
County of)ss		•
ounty of	,		
Then personally app	peared the above named Xum	ei Zhao and acknowledged the	foregoing
nstrument to be his/her free	act and deed, before me, this	day of,	2002.
		•	
		•	
		Notary Public	
		My commission cyminas	
		My commission expires:	
		By: X Godn E Monas James E. Monahan	hu
	1.0	James E. Monahan	
State of MOSSE United	SELP	aluloa	
)ss	916102	
County of M 1 dd 1 esc	2		
Then personally apporegoing instrument to be h	peared the above named Jar is/her free act and deed, before	nes E. Monahan and acknowles me, this 6 4 day of 50 kg	edged the
		Notary Public	Jun .
		My commission expires:	- 1,000
		NASIM G. MEMON Notary Public Commonwealth of Massachuse My Commission Expires May 1, 2009	etts

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WIT	NSS my hand	and seal this_	day of	April	, 2004.
				By: Shubl	hangi Kamatkar
State of M	assachuseth Middlesex))ss)			
Then foregoing in, 200	strument to b	appeared the a e his/her free ac	bove named Shet and deed, before	ubhangi Kamar re me, this <u></u>	tkar and acknowledged the day of April
		DIANA E. GENTILE Notary Public onwealth of Massachus nnission Expires Oct 27, 20		Notary Public My commiss	a Clertilo c ion expires: 10/27/200
WIT	NESS my ha	nd and seal this	day o	f	,2002.
				By:Manj	ula Gannavarapu
State of County of))ss)			
	strument to b				rapu and acknowledged theday of
				Notary Public	С
				My commiss	ion expires:

REEL: 024531 FRAME: 0309

WITHESS II.	ly nand and sear this	day of, 2002.
		Ву:
		Shubanghi Kamatkar
tate of)	
County of)ss)	
		named Shubanghi Kamatkar and acknowledged the leed, before me, this day of
·		Notary Public
		My commission expires:
WITNESS n	ny hand and seal this 🗶 🤇	Ith day of September, 2002.
		By: X Manjula Gannavarapu
	al-xeMs	ivienjula Samavarapu
tate of MCSS County of MIde	llesex	
Then person oregoing instrumen , 2002.	ally appeared the above n t to be his/her free act and o	named Manjula Gannavarapu and acknowledged the deed, before me, this
, 2002.		Oratm & Alem
		Notary Public My commission expires:
		NASIM G. MEMON Notary Public Commonwealth of Massachusetts My Commission Expires May 1, 2009

PATENT

REEL: 024531 FRAME: 0310

WITNESS my hand and seal this will day of	× September, 2002.				
	By: X Jones Staff Karen Glatt				
State of MOSSOChypelys					
State of MOSSOChaselys)ss County of mydd) escap					
Then personally appeared the above named Karen Glatt and acknowledged the foregoing instrument to be his/her free act and deed, before me, this Odday of 2002.					
	Notary Public				
WITNESS my hand and seal this day of	My commission expires:				
	By:Sebastian Hoersch				
State of)					
County of)					
Then personally appeared the above named Sebastian Hoersch and acknowledged the foregoing instrument to be his/her free act and deed, before me, this day of, 2002.					
	Notary Public				
	My commission expires:				

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WITNESS my hand a	nd seal this	day of _	, 2002.
		•	
			By: Karen Glatt
			Karen Glatt
State of)		
)ss		•
County of)		
			Glatt and acknowledged the foregoing day of, 2002.
			Notary Public
			My commission expires:
WITNESS my hand	and seal this 🗶 🤇	6 day of	* September, 2002.
			By: X Day Sebastian Hoersch
State of Massacha	wette		
State of Mossochic County of middlese	—)ss ≥∕γ};		
Then personally ap foregoing instrument to be h, 2002.	peared the abovis/her free act and	re named Se I deed, before	bastian Hoersch and acknowledged the me, this Way of Schember
			Notary Public
			My commission expires: May 1, 2009
			NASIM G. MEMON Notary Public Commonwealth of Massachusetts My Commission Expires May 1, 2009

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RECORDED: 06/14/2010