## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Benjamin Littler	09/16/2010
Brian Richard Bear	10/15/2010
Lev T.D. Fanning	10/06/2010
Robert Hughes	10/18/2010
Narendra Bhalchandra Ambhaikar	10/11/2010

#### **RECEIVING PARTY DATA**

Name:	Vertex Pharmaceuticals Incorporated
Street Address:	130 Waverly Street
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02139

#### PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	12884925
PCT Number:	US1049306

# **CORRESPONDENCE DATA**

Fax Number: (269)337-7894

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2693377700

Email: mguyman@honigman.com Correspondent Name: Jonathan P. O'Brien, Ph.D.

Address Line 1: 350 East Michigan Avenue, Suite 300 Kalamazoo, MICHIGAN 49007 Address Line 4:

ATTORNEY DOCKET NUMBER: 223306/09-139US/303251 NAME OF SUBMITTER: Michele Guyman **PATENT** 

**REEL: 025362 FRAME: 0129** 501348200

# **Total Attachments: 24** source=09139USWO\_assignment#page1.tif source=09139USWO\_assignment#page2.tif source=09139USWO\_assignment#page3.tif source=09139USWO\_assignment#page4.tif source=09139USWO\_assignment#page5.tif source=09139USWO assignment#page6.tif source=09139USWO\_assignment#page7.tif source=09139USWO\_assignment#page8.tif source=09139USWO assignment#page9.tif source=09139USWO\_assignment#page10.tif source=09139USWO\_assignment#page11.tif source=09139USWO\_assignment#page12.tif source=09139USWO assignment#page13.tif source=09139USWO\_assignment#page14.tif source=09139USWO\_assignment#page15.tif source=09139USWO\_assignment#page16.tif source=09139USWO\_assignment#page17.tif source=09139USWO\_assignment#page18.tif source=09139USWO\_assignment#page19.tif source=09139USWO\_assignment#page20.tif source=09139USWO assignment#page21.tif source=09139USWO\_assignment#page22.tif source=09139USWO\_assignment#page23.tif source=09139USWO\_assignment#page24.tif

PATENT REEL: 025362 FRAME: 0130

#### ASSIGNMENT

We,

- (1) Narendra Bhalchandra Ambhaikar, of Kondapur White Fields, Hyderabad, India;
- (2) Brian Richard Bear, of Oceanside, CA;
- (3) Lev T.D. Fanning, of San Marcos, CA;
- (4) Robert Hughes, of San Diego, CA; and
- (5) Benjamin Littler, of Carlsbad, CA,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

- (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:
- (a) the application for United States Letters Patent entitled: Process for Preparing Azabicyclic Compounds, and filed in the United States Patent and Trademark Office on September 17, 2010, under Application Number 12/884, 925 1, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or
- (b) the International Patent Application entitled: Process for Preparing Azabicyclic Compounds, filed under the Patent Cooperation Treaty in the United States Receiving Office on September 17, 2010, under Application No. PCT/US 2010/049 306<sup>2</sup>, and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

PATENT REEL: 025362 FRAME: 0131

We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when

<sup>&</sup>lt;sup>2</sup> I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

- (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world;
- (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and
- (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/243,477	US	September 17, 2009
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

Page 2 of 8

	(1) Narendra Bhalchandra Ambhaikar		
	Date:		
IN WITNESS WHEREOF			
Signature of witness: (1)			
Printed name of Witness:			
this day of	·		
Signature of witness: (2)	·		
Printed name of Witness:			
this day of			

	(2) Brian Richard Bear
	Date:
State of California	
County of	
to be the person(s) whose name(s) is/are sulto me that he/she/they executed the same in his/her/their signature(s) on the instrument person(s) acted, executed the instrument.  I certify under PENALTY OF PERJURY utforegoing paragraph is true and correct.	ho proved to me on the basis of satisfactory evidence bscribed to the within instrument and acknowledged his/her/their authorized capacity(ies), and that by the person(s), or the entity upon behalf of which the under the laws of the State of California that the
WITNESS my hand and official seal.	
Signature	(Seal)

	(3) Lev T.D. Fanning
	Date:
State of California	
County of	
be the person(s) whose name(s) is/are subs me that he/she/they executed the same in h his/her/their signature(s) on the instrument person(s) acted, executed the instrument.	(insert name and title of the officer) to proved to me on the basis of satisfactory evidence to cribed to the within instrument and acknowledged to its/her/their authorized capacity(ies), and that by the person(s), or the entity upon behalf of which the under the laws of the State of California that the
foregoing paragraph is true and correct.	under the laws of the State of Camorina that the
WITNESS my hand and official seal.	
Signature	(Seal)

	(4) Ro	obert Hughes	
	Date:		
	<del></del>		
State of California			
County of			
On befor	re me,		
personally appeared Robert Hughes, who the person(s) whose name(s) is/are subsc that he/she/they executed the same in his his/her/their signature(s) on the instrume person(s) acted, executed the instrument.	o proved to cribed to the her/their a ent the perse	o me on the basis of satisfactory evidence be within instrument and acknowledged authorized capacity(ies), and that by	to me
I certify under PENALTY OF PERJURY foregoing paragraph is true and correct.	Y under the	e laws of the State of California that the	
WITNESS my hand and official seal.		•	
Signature		(Seal)	

Date: <u>09 (16 10</u>
State of California
County of San Diego
On <u>September 16, 2010</u> before me, <u>Weichugh Chen</u> (insert name and title of the officer)
(insert name and title of the officer)
personally appeared Benjamin Littler, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to
me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the
person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.
WITNESS my hand and official seal.
Signature (1642 (Seal) WEICHIAN CHEN
Signature (Seal) WEICHUAN CHEN COMM, # 1774377
NOTARY PUBLIC CALIFORNIA SAN DIEGO COUNTY

(5) Benjamin Littler

# ACKNOWLEDGMENT OF ASSIGNEE

By: Stephen Nesbitt
Chief Patent Counsel
VERTEX PHARMACEUTICALS INCORPORATED

Date: \[ \sqrt{\text{Durable 10}}, \ \text{Zo/O} \]

Commonwealth of Massachusetts
County of Middlesex

On this \[ \frac{0}{10} \] day of \[ \sqrt{\text{Durable 10}}, \ \text{Dounty of Middlesex} \]

On this \[ \frac{10}{10} \] day of \[ \sqrt{\text{Durable 10}}, \ \text{Dounty of Middlesex} \]

On this \[ \frac{10}{10} \] day of \[ \sqrt{\text{Durable 10}}, \ \text{Dounty of Middlesex} \]

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On this \[ \frac{10}{10} \] day of \[ \frac{10}{10} \] day of \[ \frac{10}{10} \] day of \[ \text{Durable 10}, \quad \text{Dounty of Middlesex} \]

On this \[ \frac{10}{10} \] day of \[ \frac{10}{10} \] day of \[ \frac{10}{10} \] day of \[ \text{Durable 10}, \quad \text{Dounty of Middlesex} \]

On this \[ \frac{10}{10} \] day of \[ \text{Durable 10}, \quad \text{Dounty of Middlesex} \]

On this \[ \frac{10}{10} \] day of \[ \frac{10}{10} \] day of \[ \frac{10}{10} \] day

Notary Public: LISA M.

My Commission Expires: 5-13-2016

LISA M. ROMANO Notary Public

COMMONWEALTH OF MASSACHUSETTS My Commission Expires May 13, 2016

## **ASSIGNMENT**

We,

- (1) Narendra Bhalchandra Ambhaikar, of Kondapur White Fields, Hyderabad, India;
- (2) Brian Richard Bear, of Oceanside, CA;
- (3) Lev T.D. Fanning, of San Marcos, CA;
- (4) Robert Hughes, of San Diego, CA; and
- (5) Benjamin Littler, of Carlsbad, CA,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

- (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:
- (a) the application for United States Letters Patent entitled: Process for Preparing Azabicyclic Compounds, and filed in the United States Patent and Trademark Office on September 17, 2010, under Application Number 12/1844, 925 1, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or
- (b) the International Patent Application entitled: Process for Preparing Azabicyclic Compounds, filed under the Patent Cooperation Treaty in the United States Receiving Office on September 17, 2010, under Application No. <a href="PCT/US2010/049306">PCT/US2010/049306</a><sup>2</sup>, and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

Page 1 of 8

<sup>&</sup>lt;sup>1</sup> We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known

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- (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/243,477	US	September 17, 2009
Application No.	Country	Filing Date

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Page 2 of 8

	(1) Narendra Bh	nalchandra Ambhaika	Ambhaikar	
	Date:			
IN WITNESS WHEREOF				
Signature of witness: (1)				
Printed name of Witness:				
this day of	•			
Signature of witness: (2)				
Printed name of Witness:				
this day of				

	KLL
(2)	Brian Richard Bear
Dat	e: Italia

State of California

County of Son Diego

On October 13 2010 before me, OFELIA ROSADO - NOTARY PUBLIC

(insert name and title of the officer)

personally appeared Brian Richard Bear, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Afelia Rosoft (Seal)



(3) Lev T.D. Fanning
Date: /0/6//0

State of California

County of	Son	Dread	
	r -	1	-

On Metales 6, 2010 before me, OFELIA ROSADO-NOTARY PUBLIC (insert name and title of the officer)

personally appeared Lev T.D. Fanning, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Ofelia Possolo (Seal)



(4) Robert Hughes

State of California

County of	Son	Diego	
	1		

On October 18, 2010 before me, OFFIAR ROADO-NOTHEN PUBLIC (insert name and title of the officer)

personally appeared Robert Hughes, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Signature Ofelia Porodo (Seal)



	(5) Benjamin	Littler	
	Date:		
State of California			
County of			
Onbefo	ore me,	ume and title of the officer)	
personally appeared Benjamin Littler, we the person(s) whose name(s) is/are some that he/she/they executed the same his/her/their signature(s) on the instrumentarion(s) acted, executed the instrumentarion	who proved to me or subscribed to the wit in his/her/their auth- nent the person(s), o	n the basis of satisfa thin instrument and orized capacity(ies).	acknowledged to , and that by
certify under PENALTY OF PERJUR oregoing paragraph is true and correct.		f the State of Califo	rnia that the
WITNESS my hand and official seal.			
Signature	(\$	Seal)	

# ACKNOWLEDGMENT OF ASSIGNEE

By: Stephen Nesbitt	
Chief Patent Counsel	
VERTEX PHARMACEUTICALS INCORPORAT	ED
Date: Nonember 10, 20/0	
Commonwealth of Massachusetts	
County of Middlesex	
On this /o// day of //ouenbe/ notary public, personally appeared Stephen Nesbitt (na through satisfactory evidence of identification which widentity,  a driver's license,  other (please identify) whose name is signed on this document, and who sworthe document are truthful and accurate to the best of his	vas/were: personal knowledge of  to be the person  e or affirmed to me that the contents of
Notary Public: List M. Romano My Commission Expires: 5-13-2016.	LISA M. ROMANO Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires May 13, 2016

## **ASSIGNMENT**

We,

- (1) Narendra Bhalchandra Ambhaikar, of Kondapur White Fields, Hyderabad, India;
- (2) Brian Richard Bear, of Oceanside, CA;
- (3) Lev T.D. Fanning, of San Marcos, CA;
- (4) Robert Hughes, of San Diego, CA; and
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for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

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PATENT REEL: 025362 FRAME: 0147

<sup>&</sup>lt;sup>1</sup> We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

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61/243,477	US	September 17, 2009
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Page 2 of 8

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IN WITNESS WHEREOF	
Signature of witness: (1) Bolivarian Signature of Witness: SUNIL RAGHAV	
thisday of _October, 2010	
Signature of witness: (2)	
Printed name of Witness: RUTURAJ KULKARNT	
this 11th day of October 2010.	

At Anthaikar

Date: \_\_\_

(1) Narendra Bhalchandra Ambhaikar

Oct 11, 2 01 0

						_
	(2) Brian Richard Bear					
	Date:				•	
State of California						
County of						
On before n	ne,	(insert name and	1 +:+10 of +1	o officer)		-
personally appeared Brian Richard Bear, what to be the person(s) whose name(s) is/are subto me that he/she/they executed the same in his/her/their signature(s) on the instrument to person(s) acted, executed the instrument.	bscribed his/her/t	d to me on to the withi heir author	the bas in instr ized ca	sis of satis ument and apacity(ies	d ackn s), and	owledged that by
I certify under PENALTY OF PERJURY us foregoing paragraph is true and correct.	nder the	laws of the	State	of Californ	nia tha	t the
WITNESS my hand and official seal.						
Signature		(Seal)				

	(3) Lev T.D. Fanning
	Date:
State of California	
County of	
be the person(s) whose name(s) is/are subs me that he/she/they executed the same in h	me,
I certify under PENALTY OF PERJURY foregoing paragraph is true and correct.	under the laws of the State of California that the
WITNESS my hand and official seal.	
Signature	(Seal)

	(4) Robert Hughes
	(4) Robert Hughes
	Date:
State of California	
suite of Sunforma	
County of	
On hofo	ro ma
On befo	(insert name and title of the officer)
the person(s) whose name(s) is/are subsectional that he/she/they executed the same in his	o proved to me on the basis of satisfactory evidence to be cribed to the within instrument and acknowledged to me s/her/their authorized capacity(ies), and that by ent the person(s), or the entity upon behalf of which the t.
certify under PENALTY OF PERJUR foregoing paragraph is true and correct.	Y under the laws of the State of California that the
WITNESS my hand and official seal.	
Signature	(Seal)

	(5) Benjamin Littler
	Date:
State of California	
County of	
On before m	e,
be the person(s) whose name(s) is/are subscr me that he/she/they executed the same in his	(insert name and title of the officer) proved to me on the basis of satisfactory evidence to ribed to the within instrument and acknowledged to s/her/their authorized capacity(ies), and that by the person(s), or the entity upon behalf of which the
certify under PENALTY OF PERJURY unforegoing paragraph is true and correct.	nder the laws of the State of California that the
WITNESS my hand and official seal.	
Signature	(Seal)

# ACKNOWLEDGMENT OF ASSIGNEE Stephen Nesbitt Chief Patent Counsel VERTEX PHARMACEUTICALS INCORPORATED Commonwealth of Massachusetts County of Middlesex \_\_, 20\_10\_, before me, the undersigned On this 10th day of / Vonember notary public, personally appeared Stephen Nesbitt (name of document signer), proved to me through satisfactory evidence of identification which was/were: personal knowledge of identity, □ a driver's license, □ other (please identify) , to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. Notary Public Lisa M. Romans LISA M. ROMANO My Commission Expires: Notary Public COMMONWEALTH OF MASSACHUSETTS

My Commission Expires May 13, 2016