

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Benjamin Littler</td> <td>09/16/2010</td> </tr> <tr> <td>Brian Richard Bear</td> <td>10/15/2010</td> </tr> <tr> <td>Lev T.D. Fanning</td> <td>10/06/2010</td> </tr> <tr> <td>Robert Hughes</td> <td>10/18/2010</td> </tr> <tr> <td>Narendra Bhalchandra Ambhaikar</td> <td>10/11/2010</td> </tr> </tbody> </table>		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
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Vertex Pharmaceuticals Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>130 Waverly Street</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	Vertex Pharmaceuticals Incorporated	Street Address:	130 Waverly Street	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139		
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<b>PROPERTY NUMBERS Total: 2</b>													
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (269)337-7894</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2693377700</p> <p>Email: mguyman@honigman.com</p> <p>Correspondent Name: Jonathan P. O'Brien, Ph.D.</p> <p>Address Line 1: 350 East Michigan Avenue, Suite 300</p> <p>Address Line 4: Kalamazoo, MICHIGAN 49007</p>													
ATTORNEY DOCKET NUMBER:	223306/09-139US/303251												
NAME OF SUBMITTER:	Michele Guyman												

CH \$80.00 12884925

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**PATENT**  
REEL: 025362 FRAME: 0129

**Total Attachments: 24**

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## 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<sup>1</sup>, 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/US2010/049306<sup>2</sup>, and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

---

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

<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.

\_\_\_\_\_  
(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 \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(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 \_\_\_\_\_ (Seal)

\_\_\_\_\_  
(3) Lev T.D. Fanning

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(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.

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WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)

\_\_\_\_\_  
(4) Robert Hughes

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

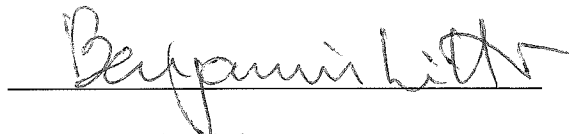
personally appeared Robert Hughes, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s)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

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 \_\_\_\_\_ (Seal)





(5) Benjamin Littler

Date: 09/16/10

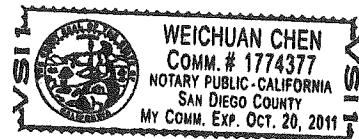
State of California

County of San Diego )On September 16, 2010 before me, Weichuan Chen  
(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.

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WITNESS my hand and official seal.

Signature Weichuan Chen (Seal)

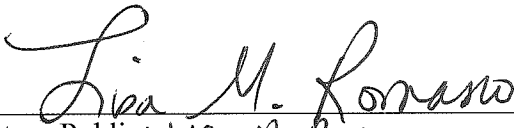
## ACKNOWLEDGMENT OF ASSIGNEE

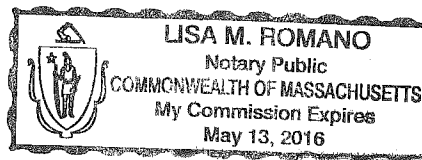
By:   
Stephen Nesbitt  
Chief Patent Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: November 10, 2010

Commonwealth of Massachusetts  
County of Middlesex

On this 10<sup>TH</sup> day of November, 2010, before me, the undersigned 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. Romano  
My Commission Expires: 5-13-2016



## 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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\_\_\_\_\_  
(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 \_\_\_\_\_.

B R B

(2) Brian Richard Bear

Date: 10/13/10

State of California

County of San Diego

On October 13, 2010 before me, OFELIA ROSADO-NOTARY PUBLIC  
(insert name and title of the officer)

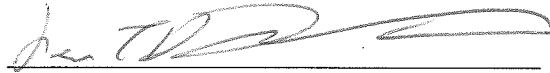
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I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Ofelia Rosado (Seal)





(3) Lev T.D. Fanning

Date: 10/6/10

State of California

County of San DiegoOn October 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.

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WITNESS my hand and official seal.

Signature Ofelia Rosado (Seal)

Robert Hughes

(4) Robert Hughes

Date: 10/18/2010

State of California

County of San Diego

On October 18, 2010 before me, OFELIA ROSADO-NOTARY 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 Rosado (Seal)





\_\_\_\_\_  
(5) Benjamin Littler

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

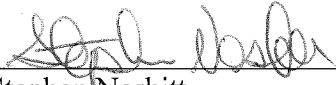
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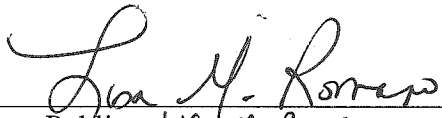
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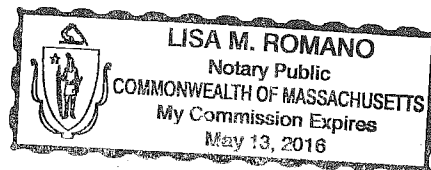
By:   
Stephen Nesbitt  
Chief Patent Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: November 10, 2010

Commonwealth of Massachusetts  
County of Middlesex

On this 10<sup>th</sup> day of November, 2010, before me, the undersigned 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. Romano  
My Commission Expires: 5-13-2016



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

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(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

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

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N. Ambhaikar

(1) Narendra Bhalchandra Ambhaikar

Date: Oct 11, 2010

IN WITNESS WHEREOF

Signature of witness: (1) Sunil Raghav

Printed name of Witness: SUNIL RAGHAV

this 11<sup>th</sup> day of October, 2010

Signature of witness: (2) Ruturaj Kulkarni

Printed name of Witness: RUTURAJ KULKARNI

this 11<sup>th</sup> day of October, 2010

\_\_\_\_\_  
(2) Brian Richard Bear

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(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 \_\_\_\_\_ (Seal)

\_\_\_\_\_  
(3) Lev T.D. Fanning

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(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 \_\_\_\_\_ (Seal)

\_\_\_\_\_  
(4) Robert Hughes

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(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.

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 \_\_\_\_\_ (Seal)



\_\_\_\_\_  
(5) Benjamin Littler

Date: \_\_\_\_\_

State of California

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

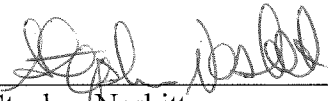
personally appeared Benjamin Littler, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) 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 \_\_\_\_\_ (Seal)

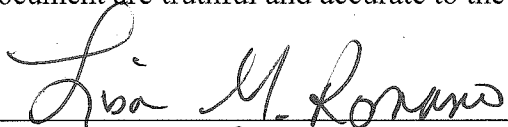
## ACKNOWLEDGMENT OF ASSIGNEE

By:   
Stephen Nesbitt  
Chief Patent Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: November 10, 2016

Commonwealth of Massachusetts  
County of Middlesex

On this 10<sup>th</sup> day of November, 2010, before me, the undersigned 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. Romano  
My Commission Expires: 5-13-2016

