

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2597338

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>HARDWIN O'DOWD</td> <td>10/17/2013</td> </tr> <tr> <td>DANIUS MACIKENAS</td> <td>10/11/2013</td> </tr> <tr> <td>BIN SONG</td> <td>10/23/2013</td> </tr> </tbody> </table>		Name	Execution Date	HARDWIN O'DOWD	10/17/2013	DANIUS MACIKENAS	10/11/2013	BIN SONG	10/23/2013
Name	Execution Date								
HARDWIN O'DOWD	10/17/2013								
DANIUS MACIKENAS	10/11/2013								
BIN SONG	10/23/2013								
RECEIVING PARTY DATA									
Name:	VERTEX PHARMACEUTICALS INCORPORATED								
Street Address:	130 WAVERLY STREET								
City:	CAMBRIDGE								
State/Country:	MASSACHUSETTS								
Postal Code:	02139								
PROPERTY NUMBERS Total: 2									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13945257</td> </tr> <tr> <td>PCT Number:</td> <td>US1351008</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13945257	PCT Number:	US1351008		
Property Type	Number								
Application Number:	13945257								
PCT Number:	US1351008								
CORRESPONDENCE DATA									
Fax Number:	(617)341-6483								
Phone:	8584045358								
Email:	usptopatents@vrtx.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	VERTEX PHARMACEUTICALS INCORPORATED								
Address Line 1:	130 WAVERLY STREET								
Address Line 4:	CAMBRIDGE, MASSACHUSETTS 02139								
ATTORNEY DOCKET NUMBER:	VPI/12-118 US & WO								
NAME OF SUBMITTER:	LAUREN M. DEVINCENZO								
Signature:	/Lauren M. DeVincenzo/								

CH \$80.00 13945257

Date:

10/30/2013

Total Attachments: 12

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ASSIGNMENT

We,

- (1) Hardwin O'Dowd, of Boston, Massachusetts;
- (2) Dainius Macikenas, of Watertown, Massachusetts; and
- (3) Bin Song, of Belmont Massachusetts,

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: SOLID FORMS OF (R)-2-(5-(2-(3-ETHYLUREIDO)-6-FLUORO-7-(TETRAHYDROFURAN-2-YL)-1H-BENZO[d]IMIDAZOL-5-YL)PYRIMIDIN-2-YL)PROPAN-2-YL DIHYDROGEN PHOSPHATE AND SALTS THEREOF, and filed in the United States Patent and Trademark Office on July 18, 2013, under Application Number 13/945,257, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: SOLID FORMS OF (R)-2-(5-(2-(3-ETHYLUREIDO)-6-FLUORO-7-(TETRAHYDROFURAN-2-YL)-1H-BENZO[D]IMIDAZOL-5-YL)PYRIMIDIN-2-YL)PROPAN-2-YL DIHYDROGEN PHOSPHATE AND SALTS THEREOF, filed under the Patent Cooperation Treaty in the United States Receiving Office on July 18, 2013, under Application No.: PCT/US13/51008, and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

(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):

61/673,104	United States of America	July 18, 2012
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.

Hardwin O'Dowd

(1) Hardwin O'Dowd

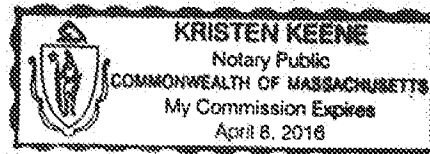
Date: 10/17/2013

Commonwealth of Massachusetts
County of Middlesex

On this 17 day of October, 2013, before me, the undersigned notary public, personally appeared Hardwin O'Dowd, 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.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016



(2) Dainius Macikenas

Date: _____

Commonwealth of Massachusetts
County of Middlesex

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Dainius Macikenas, 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
My Commission Expires: _____.

.....
(3) Bin Song

Date:

Commonwealth of Massachusetts
County of Middlesex

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Bin Song, 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
My Commission Expires:

ACKNOWLEDGMENT OF ASSIGNEE

By: _____
Stephen L. Nesbitt
Vice President and Chief IP Counsel
VERTEX PHARMACEUTICALS INCORPORATED

Date: _____

Commonwealth of Massachusetts
County of Middlesex

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Stephen L. 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
My Commission Expires: _____

ASSIGNMENT

We,

- (1) Hardwin O'Dowd, of Boston, Massachusetts;
- (2) Dainius Macikenas, of Cambridge, Massachusetts; and
- (3) Bin Song, of Belmont Massachusetts,

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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(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):

61/673,104	United States of America	July 18, 2012
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) Hardwin O'Dowd

Date: _____

Commonwealth of Massachusetts
County of Middlesex

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Hardwin O'Dowd, 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
My Commission Expires: _____.

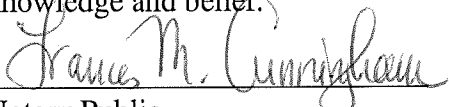


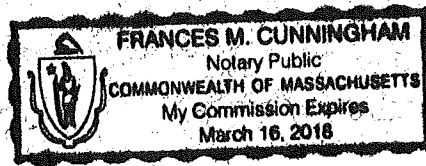
(2) Dainius Macikenas

Date: Oct 11, 2013

Commonwealth of Massachusetts
County of Middlesex

On this 11th day of October, 2013, before me, the undersigned notary public, personally appeared Dainius Macikenas, 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
My Commission Expires: 3/16/2018.



Bin Song

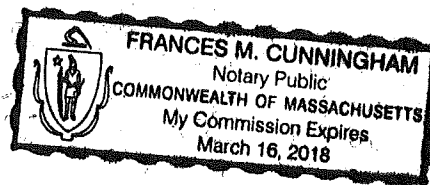
(3) Bin Song

Date: 23 Oct 2013

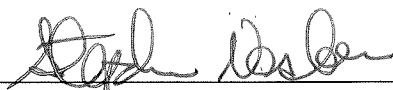
Commonwealth of Massachusetts
County of Middlesex

On this 23rd day of October, 2013, before me, the undersigned notary public, personally appeared Bin Song, 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.

Francis M. Cunningham
Notary Public
My Commission Expires: 3/16/2018



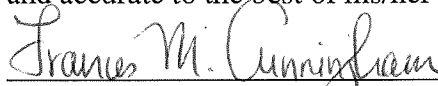
ACKNOWLEDGMENT OF ASSIGNEE

By: 
Stephen L. Nesbitt
Vice President and Chief IP Counsel
VERTEX PHARMACEUTICALS INCORPORATED

Date: October 29, 2013

Commonwealth of Massachusetts
County of Middlesex

On this 29th day of October, 2013, before me, the undersigned notary public, personally appeared Stephen L. 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
My Commission Expires: 3/16/2018

