

PATENT ASSIGNMENT COVER SHEET

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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>DEAN STAMOS</td> <td>12/19/2008</td> </tr> <tr> <td>ESTHER MARTINBOROUGH</td> <td>01/16/2009</td> </tr> <tr> <td>NICOLE ZIMMERMAN</td> <td>01/06/2009</td> </tr> <tr> <td>TIMOTHY NEUBERT</td> <td>01/23/2009</td> </tr> <tr> <td>MEHDI MICHEL DJAMEL NUMA</td> <td>12/12/2008</td> </tr> <tr> <td>TARA WHITNEY</td> <td>01/16/2009</td> </tr> <tr> <td>AARTI SAMEER KAWATKA</td> <td>12/15/2008</td> </tr> </tbody> </table>		Name	Execution Date	DEAN STAMOS	12/19/2008	ESTHER MARTINBOROUGH	01/16/2009	NICOLE ZIMMERMAN	01/06/2009	TIMOTHY NEUBERT	01/23/2009	MEHDI MICHEL DJAMEL NUMA	12/12/2008	TARA WHITNEY	01/16/2009	AARTI SAMEER KAWATKA	12/15/2008
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RECEIVING PARTY DATA																	
Name:	VERTEX PHARMACEUTICALS INCORPORATED																
Street Address:	130 WAVERLY STREET																
City:	CAMBRIDGE																
State/Country:	MASSACHUSETTS																
Postal Code:	02139																
PROPERTY NUMBERS Total: 1																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13967732</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13967732												
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Application Number:	13967732																
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/07-143 US DV2																

CH \$40.00 13967732

NAME OF SUBMITTER:	LAUREN M. DEVINCENZO
Signature:	/Lauren M. DeVincenzo/
Date:	11/21/2013
Total Attachments: 11 source=07-143 US DV1_Executed_Assignment#page1.tif source=07-143 US DV1_Executed_Assignment#page2.tif source=07-143 US DV1_Executed_Assignment#page3.tif source=07-143 US DV1_Executed_Assignment#page4.tif source=07-143 US DV1_Executed_Assignment#page5.tif source=07-143 US DV1_Executed_Assignment#page6.tif source=07-143 US DV1_Executed_Assignment#page7.tif source=07-143 US DV1_Executed_Assignment#page8.tif source=07-143 US DV1_Executed_Assignment#page9.tif source=07-143 US DV1_Executed_Assignment#page10.tif source=07-143 US DV1_Executed_Assignment#page11.tif	

ASSIGNMENT

We,

- (1) Dean Stamos, of Carlsbad, California;
- (2) Esther Martinborough, of San Diego, California;
- (3) Nicole Zimmermann, of San Diego, California;
- (4) Timothy Neubert, of San Diego, California;
- (5) Mehdi Michel Djamel Numa, of San Diego, California;
- (6) Tara Whitney of San Diego, California; and
- (7) Aarti Sameer Kawatkar of Newton, Massachusetts,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, 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:

HETEROCYCLIC DERIVATIVES AS MODULATORS OF ION CHANNELS, and filed in the United States Patent and Trademark Office on November 12, 2008, under Application Number 12/269,108, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: HETEROCYCLIC DERIVATIVES AS MODULATORS OF ION CHANNELS, filed under the Patent Cooperation Treaty in the United States Receiving Office on November 12, 2008, under Application No. PCT/US2008/83165, 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):

60/987,485	United States of America	November 13, 2007
61/088,141	United States of America	August 12, 2008
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.

[Signature]

(1) Dean Stamos

Date: 12.19.08

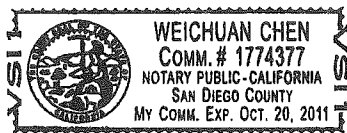
State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 19th, day of December, 20 08 by Dean Stamos, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

[Signature]
Notary Public
My Commission Expires: 10-20-2011

(Notary Seal)



Esther Martinborough

(2) Esther Martinborough

Date: 01/16/09

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 16th, day of

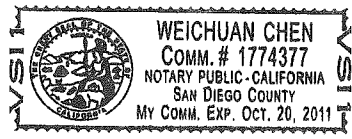
January, 2009 by Esther Martinborough, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Weichuan Chen

Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)



Nicole Z

(3) Nicole Zimmermann

Date: 01/06/2009

State of California

County of San Diego ss

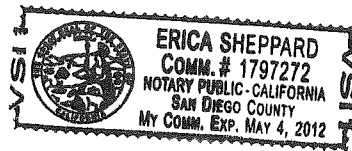
Subscribed and sworn to (or affirmed) before me this (date) 6th, day of

January, 20 09 by Nicole Zimmermann, proved to

me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Erica Sheppard
Notary Public
My Commission Expires: 5/4/12.

(Notary Seal)



Timothy Neubert

(4) Timothy Neubert

Date: 1/23/09

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 23rd, day of

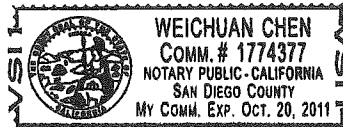
January, 2009 by Timothy Neubert, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Weichuan Chen

Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)



M. Djamel Numa

(5) Mehdi Michel Djamel Numa

Date: 12.12.08

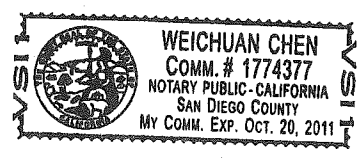
State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 12th, day of December, 2008 by Mehdi Michel Djamel Numa approved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

[Signature]
Notary Public
My Commission Expires: 10-20-2011

(Notary Seal)



Tara Whitney

(6) Tara Whitney
Date: 01/16/09_____

State of California

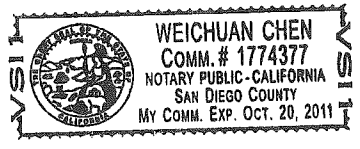
County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 16th, day of
January, 20 09 by Tara Whitney, proved to
me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Weichuan Chen

Notary Public
My Commission Expires: 10-20-2011

(Notary Seal)



AvPat

(7) Aarti Sameer Kawatka

Date: 12/15/08

State of California


County of Middlesex ss

Subscribed and sworn to (or affirmed) before me this (date) 15th, day of December, 2008 by in person, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

[Signature]
Notary Public
My Commission Expires: 11/30/2015

(Notary Seal)

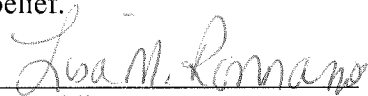
ACKNOWLEDGMENT OF ASSIGNEE

By: 
Stephen L. Nesbitt
Chief Patent Counsel
VERTEX PHARMACEUTICALS INCORPORATED

Date: 2/2/2009

Commonwealth of Massachusetts
County of Middlesex

On this 2nd day of Feb., 2009, 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: 5/8/09

