

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>SARA HADIDA-RUAH</td> <td>12/12/2008</td> </tr> <tr> <td>MARK MILLER</td> <td>12/12/2008</td> </tr> <tr> <td>JINGLAN ZHOU</td> <td>12/19/2008</td> </tr> <tr> <td>BRIAN BEAR</td> <td>12/12/2008</td> </tr> <tr> <td>PETER GROOTENHUIS</td> <td>01/16/2009</td> </tr> </tbody> </table>		Name	Execution Date	SARA HADIDA-RUAH	12/12/2008	MARK MILLER	12/12/2008	JINGLAN ZHOU	12/19/2008	BRIAN BEAR	12/12/2008	PETER GROOTENHUIS	01/16/2009
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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>13936277</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13936277								
Property Type	Number												
Application Number:	13936277												
CORRESPONDENCE DATA													
Fax Number:													
Email:	leslie_garbarczuk@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/07-136 US DV1												
NAME OF SUBMITTER:	LESLIE GARBARCZUK												
Signature:	/Leslie Garbarczuk/												

CH \$40.00 13936277

Date:

10/22/2013

Total Attachments: 8

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ASSIGNMENT

We,

- (1) Sara Hadida Ruah, of La Jolla, California;
- (2) Mark Miller, of San Diego, California;
- (3) Jinglan Zhou, of San Diego, California;
- (4) Brian Bear, of Oceanside, California; and
- (5) Peter Grootenhuis, of San Diego, California,

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: Modulators of ATP-Binding Cassette-Transporters, and filed in the United States Patent and Trademark Office on November 14, 2008, under Application Number 12/271,088, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: Modulators of ATP-Binding Cassette-Transporters, filed under the Patent Cooperation Treaty in the United States Receiving Office on November 14, 2008, under Application No. PCT/US2008/83517, 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 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):

<u>60/988,559</u>	<u>United States of America</u>	<u>November 16, 2007</u>
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.

Medida

(1) Sara S. Hadida Ruah

Date: 12/12/2008

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 12th, day of

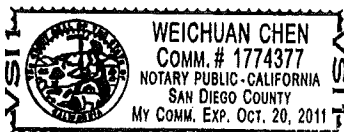
December, 2008 by Sara S. Hadida Ruah, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Wei Chen

Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)



Mark Miller

(2) Mark Miller

Date: 12/12/2008

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 12th, day of

December, 2008 by Mark Miller, proved to

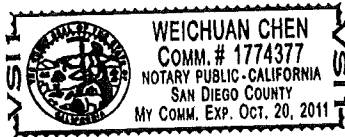
me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Wei Chuan Chen

Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)



Ji

(3) Jinglan Zhou

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, 2008 by Jinglan Zhou, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Wei

Notary Public
My Commission Expires: 10-20-2011.

(Notary Seal)



B-R-B

(4) Brian Bear

Date: 12/12/2008

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 12th, day of
December, 20 08 by Brian Bear, proved to
me on the basis of satisfactory evidence to be the person(s) who appeared before me.

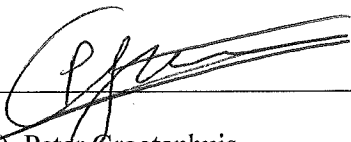
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Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)





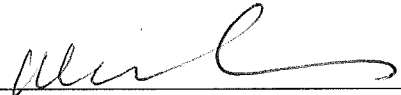
(5) Peter Grootenhuis

Date: 1/16/2009

State of California

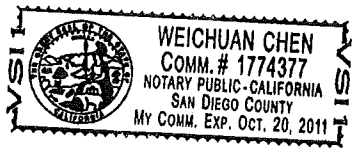
County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 16th, day of
January, 2009 by Peter Grootenhuis, proved to
me on the basis of satisfactory evidence to be the person(s) who appeared before me.



Notary Public
My Commission Expires: 10-20-2011

(Notary Seal)



ACKNOWLEDGMENT OF ASSIGNEE

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

Date: February 11, 2009

Commonwealth of Massachusetts
County of Middlesex

On this 9th day of February, 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.

Lisa M. Romano
Notary Public
My Commission Expires: 5/8/09

