

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2574467

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 S. HADIDA RUAH</td> <td>09/10/2007</td> </tr> <tr> <td>MARK T. MILLER</td> <td>09/10/2007</td> </tr> <tr> <td>BRIAN BEAR</td> <td>09/10/2007</td> </tr> <tr> <td>JASON MCCARTNEY</td> <td>09/14/2007</td> </tr> <tr> <td>PETER D.J. GROOTENHUIS</td> <td>09/18/2007</td> </tr> </tbody> </table>		Name	Execution Date	SARA S. HADIDA RUAH	09/10/2007	MARK T. MILLER	09/10/2007	BRIAN BEAR	09/10/2007	JASON MCCARTNEY	09/14/2007	PETER D.J. GROOTENHUIS	09/18/2007
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>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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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/05-175 US CN2												
NAME OF SUBMITTER:	LESLIE GARBARCZUK												
Signature:	/Leslie Garbarczuk/												

CH \$40.00 13928719

Date:

10/11/2013

Total Attachments: 6

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ASSIGNMENT

I/We,

- (1) **Sara S. Hadida Ruah**, of La Jolla, California 92037;
- (2) **Mark T. Miller**, of San Diego, California 92109;
- (3) **Brian Bear**, of Oceanside, California 92057;
- (4) **Jason McCartney**, of Cardiff by the Sea, California 92007; and
- (5) **Peter D. J. Grootenhuis**, of San Diego, California 92130;

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 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 December 28, 2006, under Application Number 11/647,092 including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications there from, 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 December 28, 2006 under Application No. PCT/US2006/049412 and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications there from;

(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):

60/754,558	USA	December 28, 2005
Application No.	Country	Filing Date
60/802,580	USA	May 22, 2006
Application No.	Country	Filing Date

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

I/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.

I/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.

I/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.

S. Hadida

(1) Sara S. Hadida Ruah

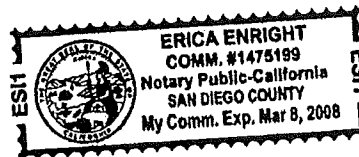
Date: 9/10/2007

State of California

County of San Diego

On this 10th day of September, 2007, before me, the undersigned notary public, personally appeared **Sara S. Hadida Ruah**, proved to me through satisfactory evidence of identification which were personal knowledge, 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.

Erica Enright
Notary Public
My Commission Expires: 3/8/18



Mark T. Miller

(2) Mark T. Miller

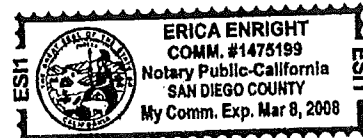
Date: _____

State of California

County of San Diego

On this 10th day of September, 2007, before me, the undersigned notary public, personally appeared **Mark T. Miller**, proved to me through satisfactory evidence of identification which were personal knowledge, 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.

Erica Enright
Notary Public
My Commission Expires: 3/8/18



B-18

(3) Brian Bear

Date: 9/10/07

State of California

County of San Diego

On this 10th day of September, 2007, before me, the undersigned notary public, personally appeared **Brian Bear**, proved to me through satisfactory evidence of identification which were personal knowledge, 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.

Erica Enright
Notary Public
My Commission Expires: 2/8/08



Jason McCartney

(4) Jason McCartney

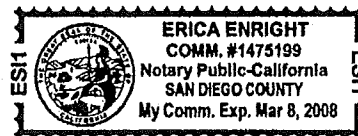
Date: 9/14/07


State of California

County of San Diego

On this 14 day of September, 2007, before me, the undersigned notary public, personally appeared **Jason McCartney**, proved to me through satisfactory evidence of identification which were personal knowledge, 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.

Erica Enright
Notary Public
My Commission Expires: 3/8/08

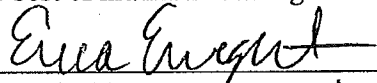


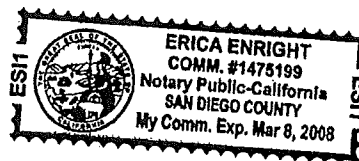

(5) Peter D. J. Grootenhuis
Date: 9/10/07

State of California

County of San Diego

On this 10th day of September, 2007, before me, the undersigned notary public, personally appeared Peter D. J. Grootenhuis, proved to me through satisfactory evidence of identification which were personal knowledge, 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: 3/8/08



ACKNOWLEDGMENT OF ASSIGNEE

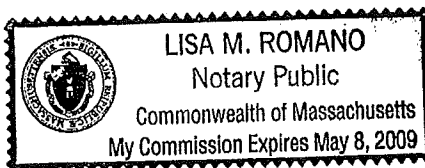
By: [Signature]
Title: Chief Patent Counsel
Date: January 24, 2008

Commonwealth of Massachusetts

County of Middlesex

On this 24th day of January 2008⁸, before me, the undersigned notary public, personally appeared Stephen Nesbitt (name of document signer), proved to me through satisfactory evidence of identification which were Personal Knowledge, 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: 5/8/2009



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