

PATENT ASSIGNMENT

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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 S. HADIDA RUAH</td> <td>02/01/2008</td> </tr> <tr> <td>FREDRICK F. VAN GOOR</td> <td>01/29/2008</td> </tr> <tr> <td>MARK T. MILLER</td> <td>01/25/2008</td> </tr> <tr> <td>JASON MCCARTNEY</td> <td>01/25/2008</td> </tr> <tr> <td>JINGLAN ZHOU</td> <td>01/24/2008</td> </tr> <tr> <td>VIJAYALAKSMI ARUMUGAM</td> <td>01/28/2008</td> </tr> </tbody> </table>		Name	Execution Date	SARA S. HADIDA RUAH	02/01/2008	FREDRICK F. VAN GOOR	01/29/2008	MARK T. MILLER	01/25/2008	JASON MCCARTNEY	01/25/2008	JINGLAN ZHOU	01/24/2008	VIJAYALAKSMI ARUMUGAM	01/28/2008
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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>13178677</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13178677										
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CORRESPONDENCE DATA															
Fax Number:															
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Email:	leslie_garbarczuk@vrtx.com														
Correspondent Name:	VERTEX PHARMACEUTICALS INCORPORATED														
Address Line 1:	130 WAVERLY STREET														
Address Line 4:	CAMBRIDGE, MASSACHUSETTS 02139														
ATTORNEY DOCKET NUMBER:	VPI/05-146 US DV1														
NAME OF SUBMITTER:	LESLIE GARBARCZUK														

CH \$40.00 13178677

Signature:	/Leslie Garbarczuk/
Date:	10/04/2013
Total Attachments: 7 source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page1.tif source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page2.tif source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page3.tif source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page4.tif source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page5.tif source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page6.tif source=VPI_05_146_US_DV1_Executed_Assignment_from_Partent_Filed#page7.tif	

ASSIGNMENT

I/We,

- (1) HADIDA RUAH, SARA S., of LA JOLLA, CA;
- (2) VAN GOOR, FREDRICK F., of SAN DIEGO, CA;
- (3) MILLER, MARK T., of SAN DIEGO, CA; and
- (4) MCCARTNEY, JASON, of CARDIFF BY THE SEA, CA
- (5) ZHOU, JINGLAN, of SAN DIEGO, CA; and
- (6) ARUMUGAM, VIJAYALAKSMI, of SAN MARCO, CA;

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 CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, and filed in the United States Patent and Trademark Office on August 11, 2006, under Application Number 11.503,449,¹ 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 CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, filed under the Patent Cooperation Treaty in the United States Receiving Office on August 11,

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

2006 under Application No. PCT/US2006/031457² 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):

60/707,380	US	August 11, 2005
Application No.	Country	Filing Date
60/732,476	US	November 2, 2005
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.

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

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.

Mediate

(1) Sara S. Hadida Ruah

Date: 2/1/2008

State of California
County of San Diego

On this 1st day of February 2008, before me, the undersigned notary public, personally appeared **Sara S. Hadida Ruah**, 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.

Wei Chen
Notary Public
My Commission Expires: 10-20-2011



Fredrick F. Van Goor
(2) Fredrick F. Van Goor

Date: 01/29/2008

State of California
County of San Diego

On this 29th day of January, 2008, before me, the undersigned notary public, personally appeared **Fredrick F. Van Goor**, 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.

Wei Chen
Notary Public
My Commission Expires: 10-20-2011



Mark T. Miller

(3) **Mark T. Miller**

Date: 1/25/2008

State of California
County of San Diego

On this 25th day of January, 2008, before me, the undersigned notary public, personally appeared **Mark T. Miller**, 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.

Weichuan Chen
Notary Public
My Commission Expires: 10-20-2011



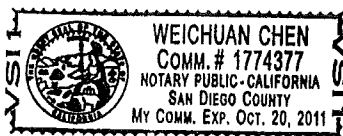
Jason McCartney
(4) **Jason McCartney**

Date: 1/25/2008

State of California
County of San Diego

On this 25th day of January, 2008, before me, the undersigned notary public, personally appeared **Jason McCartney**, 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.

Weichuan Chen
Notary Public
My Commission Expires: 10-20-2011



Jinglan Zhou
(5) **Jinglan Zhou**
Date: 1/24/08

State of California
County of San Diego

On this 26th day of January, 2008, before me, the undersigned notary public, personally appeared **Jinglan Zhou**, 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.

Weichuan Chen
Notary Public
My Commission Expires: 10-20-2011

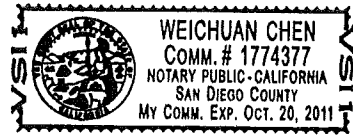


A. Vijayalaksmi
(6) **Vijayalaksmi Arumugam**
Date: 01/28/08

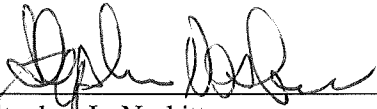
State of California
County of San Diego

On this 28th day of January, 2008, before me, the undersigned notary public, personally appeared **Vijayalaksmi Arumugam**, 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.

Weichuan Chen
Notary Public
My Commission Expires: 10-20-2011



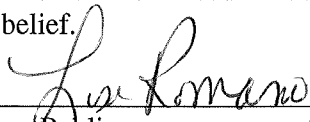
ACKNOWLEDGMENT OF ASSIGNEE

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

Date: February 7, 2008

Commonwealth of Massachusetts
County of Middlesex

On this 7th day of February, 2008, 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
My Commission Expires: 5/8/09

