

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4065720

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT J. DAVIES	06/03/2016
JINGRONG CAO	06/03/2016
MEGHAN ELISE COCKERILL	08/18/2016
PHILIP NOEL COLLIER	06/03/2016
MICHAEL PAUL DENINNO	06/03/2016
ELISABETH DOYLE	08/15/2016
JAMES DANIEL FRANTZ	06/03/2016
HUAI GAO	09/15/2016
BRIAN ANTHONY GOLDMAN	06/06/2016
RONALD LEE GREY JR.	06/06/2016
ANNE-LAURE GRILLOT	06/02/2016
WENXIN GU	06/03/2016
JAMES A. HENDERSON	08/17/2016
RAUL EDUARDO KRAUSS	08/25/2016
ADRIANNE LYNN KOLPAK	06/02/2016
YUSHENG LIAO	06/03/2016
SANJAY SHIVAYOGI MAGAVI	06/02/2016
FRANCOIS MALTAIS	06/03/2016
DAVID MESSERSMITH	06/08/2016
ALBERT CHARLES PIERCE	06/03/2016
EMANUELE PEROLA	06/02/2016
ELIZABETH JIN-SUN RYU	06/03/2016
JOSHUA SYKEN	06/03/2016
JIAN WANG	08/09/2016

RECEIVING PARTY DATA

Name:	VERTEX PHARMACEUTICALS INCORPORATED
Street Address:	50 NORTHERN AVENUE
City:	BOSTON
State/Country:	MASSACHUSETTS
Postal Code:	02210

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15173177
PCT Number:	US1635847

CORRESPONDENCE DATA**Fax Number:**

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6179618018

Email: patents@vrtx.com

Correspondent Name: VERTEX PHARMACEUTICALS INCORPORATED

Address Line 1: 50 NORTHERN AVENUE

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER: VPI/14-125 US/WO

NAME OF SUBMITTER: LAUREN M. DEVINCENZO

SIGNATURE: /Lauren M. DeVincenzo/

DATE SIGNED: 09/23/2016

Total Attachments: 112

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ASSIGNMENT

We,

- (1) Robert J. Davies, of Arlington, Massachusetts;
- (2) Jingrong Cao, of Newton, Massachusetts;
- (3) Meghan Elise Cockerill, of Boston, Massachusetts;
- (4) Philip Noel Collier, of Hingham, Massachusetts;
- (5) Michael Paul DeNinno, of Gales Ferry, Connecticut
- (6) Elisabeth Doyle, of Worcester, Massachusetts;
- (7) James Daniel Frantz, of Belmont, Massachusetts;
- (8) Huai Gao, of Arlington, Massachusetts;
- (9) Brian Anthony Goldman, of Brookline, Massachusetts;
- (10) Ronald Lee Grey, Jr., of Mansfield, Massachusetts;
- (11) Anne-Laure Grillot, of Milton, Massachusetts;
- (12) Wenxin Gu, of Concord, Massachusetts;
- (13) James A. Henderson, of Weston, Massachusetts;
- (14) Raul Eduardo Krauss, of Chestnut Hill, Massachusetts;
- (15) Adrienne Lynn Kolpak, of Watertown, Massachusetts;
- (16) Yusheng Liao, of Lexington, Massachusetts;
- (17) Sanjay Shivayogi Magavi, of Cambridge, Massachusetts;
- (18) Francois Maltais, of Tewksbury, Massachusetts
- (19) David Messersmith, of Somerville, Massachusetts;
- (20) Albert Charles Pierce, of Cambridge, Massachusetts;
- (21) Emanuele Perola, of Brookline, Massachusetts;
- (22) Elizabeth Jin-Sun Ryu, of Newton, Massachusetts;
- (23) Joshua Syken, of Jamaica Plain, Massachusetts, and
- (24) Jian Wang, of Newton, 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 50 Northern Avenue, Boston, Massachusetts 02210, 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: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, and filed in the United States Patent and Trademark Office on June 3, 2016 under Application Number 15/173,177¹, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, filed under the Patent Cooperation Treaty in the United States Receiving Office on June 3, 2016 under Application No. PCT/US16/35847², 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):

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

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

62/171,784	United States of America	June 5, 2015
Application No.	Country	Filing Date
62/326,471	United States of America	April 22, 2016
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.

R. J. Davies

(1) Robert J. Davies

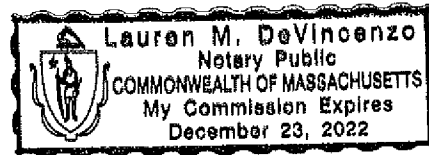
Date: 6/3/2016

Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of June, 2016, before me, the undersigned notary public, personally appeared Robert J. Davies, 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.

Lauren M. DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



Jingrong Cao

(2) Jingrong Cao

Date: 6/03/16

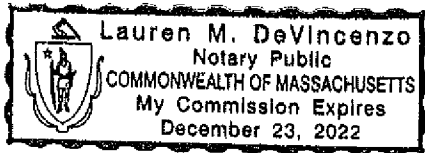
Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of JUNE, 2016, before me, the undersigned notary public, personally appeared Jingrong Cao, 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.

Lauren M. DeVincenzo

Notary Public

My Commission Expires: December 23, 2022



[Handwritten Signature]

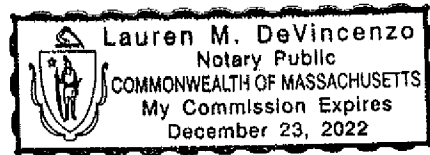
(3) Meghan Elise Cockerill

Date: 8/18/2016

Commonwealth of Massachusetts
County of Suffolk

On this 18th day of August, 2016, before me, the undersigned notary public, personally appeared Meghan Elise Cockerill, 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.

Lauren M DeVincenzo
Notary Public
My Commission Expires: December 23, 2022



Philip Noel Collier

(4) Philip Noel Collier

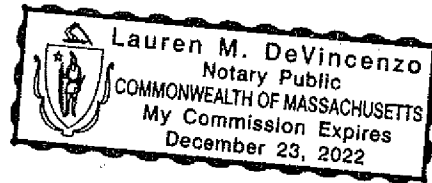
Date: 6/3/2016

Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of JUNE, 2016, before me, the undersigned notary public, personally appeared Philip Noel Collier, 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.

Lauren M DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



Michael Paul DeNinno

(5) Michael Paul DeNinno

Date: 6-3-2016

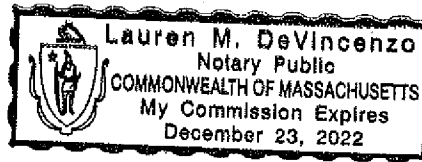
Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of June, 2016, before me, the undersigned notary public, personally appeared Michael Paul DeNinno, 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.

Lauren M DeVincenzo

Notary Public

My Commission Expires: December 23, 2022



Elisabeth Doyle

(6) Elisabeth Doyle

Date: 8/15/16

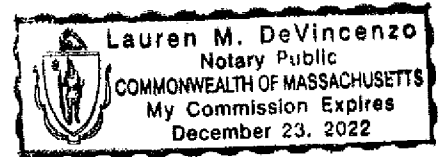
Commonwealth of Massachusetts
County of Suffolk

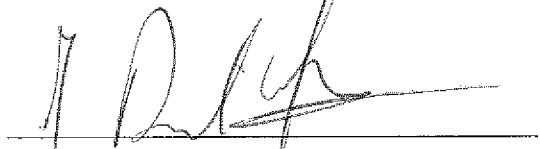
On this 15th day of August, 2016, before me, the undersigned notary public, personally appeared Elisabeth Doyle, proved to me through satisfactory evidence of identification which was/were: personal knowledge of identity, a driver's license, other (please identify) _____, to be the person whose name 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.

Lauren M DeVincenzo

Notary Public

My Commission Expires: December 23, 2022

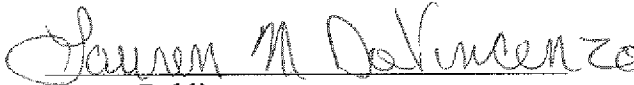




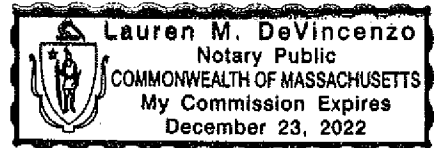
(7) James Daniel Frantz
Date: 6/3/16

Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of JUNE, 2016, before me, the undersigned notary public, personally appeared James Daniel Frantz, 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: December 23, 2022



(8) Huai Gao

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Brian Anthony Goldman

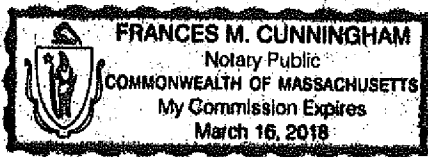
(9) Brian Anthony Goldman

Date: June 6, 2016

Commonwealth of Massachusetts
County of Suffolk

On this 6th day of June, 2016, before me, the undersigned notary public, personally appeared Brian Anthony Goldman, 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.

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



Ronald Lee Grey, Jr.

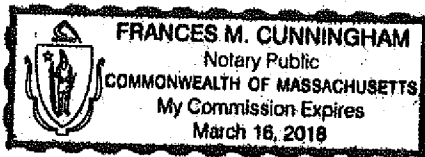
(10) Ronald Lee Grey, Jr.

Date: 06/06/2016

Commonwealth of Massachusetts
County of Suffolk

On this 6th day of June, 2016, before me, the undersigned notary public, personally appeared Ronald Lee Grey, Jr., 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.

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



Anne-Laure Grillo

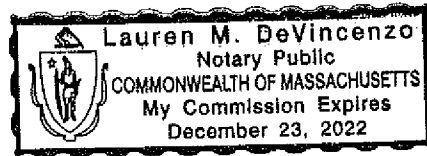
(11) Anne-Laure Grillo

Date: 06/02/2016

Commonwealth of Massachusetts
County of Suffolk

On this 2nd day of June, 2016, before me, the undersigned notary public, personally appeared Anne-Laure Grillo, 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.

Lauren M DeVincenzo
Notary Public
My Commission Expires: December 23, 2022



Wenxin Gu

(12) Wenxin Gu

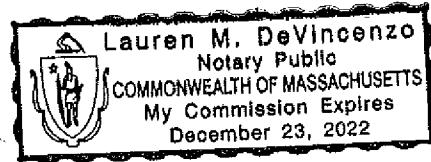
Date: 6/3/2016

Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of June, 2016, before me, the undersigned notary public, personally appeared Wenxin Gu, 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.

Lauren M DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



(13) James A. Henderson

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

(14) Raul Eduardo Krauss

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Adrianne Lynn Kolpak

(15) Adrianne Lynn Kolpak

Date: 6/2/16

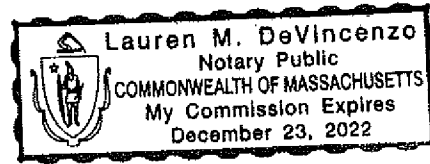
Commonwealth of Massachusetts
County of Suffolk

On this 2nd day of June, 2016, before me, the undersigned notary public, personally appeared Adrianne Lynn Kolpak, 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.

Lauren M DeVincenzo

Notary Public

My Commission Expires: December 23, 2022



Yusheng Liao

(16) Yusheng Liao

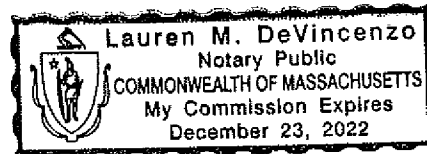
Date: 6/3/2016

Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of June, 2016, before me, the undersigned notary public, personally appeared Yusheng Liao, 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.

Lauren M. DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



Sanjay Shivayogi Magavi

(17) Sanjay Shivayogi Magavi

Date: June 2, 2016

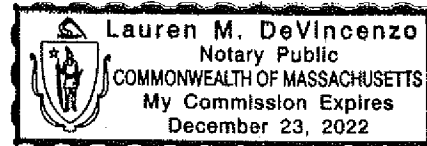
Commonwealth of Massachusetts
County of Suffolk

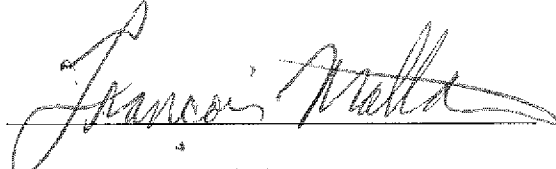
On this 2nd day of JUNE, 2016, before me, the undersigned notary public, personally appeared Sanjay Shivayogi Magavi, proved to me through satisfactory evidence of identification which was/were: personal knowledge of identity, a driver's license, other (please identify) _____, to be the person whose 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.

Lauren M DeVincenzo

Notary Public

My Commission Expires: December 23, 2022



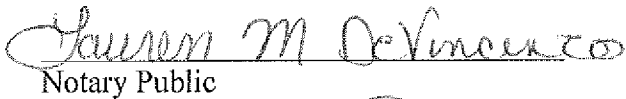


(18) Francois Maltais

Date: 06/03/16

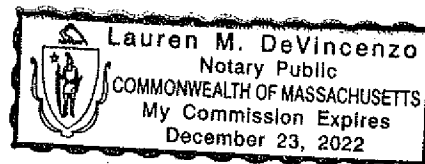
Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of JUNE, 2016, before me, the undersigned notary public, personally appeared Francois Maltais, 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: December 23, 2022



David Messersmith

(19) David Messersmith

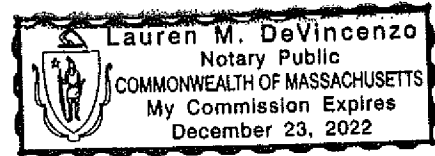
Date: 08 June 2016

Commonwealth of Massachusetts
County of Suffolk

On this 8th day of JUNE, 2016, before me, the undersigned notary public, personally appeared David Messersmith, 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.

Lauren M DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



Albert Charles Pierce

(20) Albert Charles Pierce

Date: June 3, 2016

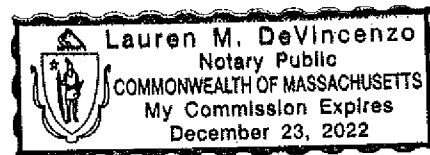
Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of JUNE, 2016, before me, the undersigned notary public, personally appeared Albert Charles Pierce, 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.

Lauren M DeVincenzo

Notary Public

My Commission Expires: December 23, 2022



Emanuele Perola

(21) Emanuele Perola

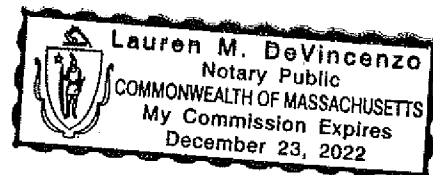
Date: 6/21/2016

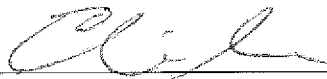
Commonwealth of Massachusetts
County of Suffolk

On this 2nd day of June, 2016, before me, the undersigned notary public, personally appeared Emanuele Perola, 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.

Lauren M DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



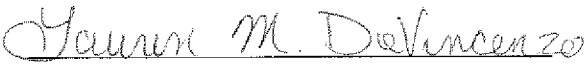


(22) Elizabeth Jin-Sun Ryu

Date: 3 JUNE 2016

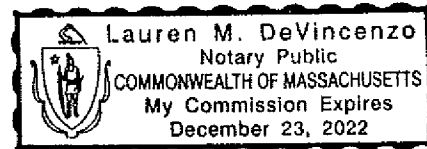
Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of June, 2016, before me, the undersigned notary public, personally appeared Elizabeth Jin-Sun Ryu, 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: December 23, 2016



[Signature]

(23) Joshua Syken

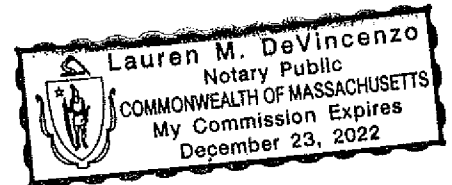
Date: 6/3/16

Commonwealth of Massachusetts
County of Suffolk

On this 3rd day of JUNE, 2016, before me, the undersigned notary public, personally appeared Joshua Syken, 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.

Lauren M. DeVincenzo
Notary Public

My Commission Expires: December 23, 2022



Jian Wang

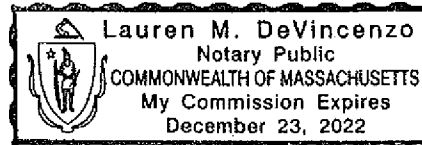
(24) Jian Wang

Date: August 9, 2016

Commonwealth of Massachusetts
County of Suffolk

On this 9th day of August, 2016, before me, the undersigned notary public, personally appeared Jian Wang, 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.

Lauren M DeVincenzo
Notary Public
My Commission Expires: Dec 23, 2022



ACKNOWLEDGMENT OF ASSIGNEE

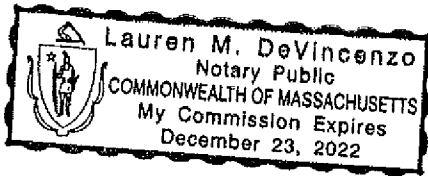
By: *Kerry A. Flynn*
Kerry A. Flynn
Vice President and Chief IP Counsel
on behalf of Vertex Pharmaceuticals Incorporated

Date: September 20, 2016

Commonwealth of Massachusetts
County of Suffolk

On this 20th day of September, 2016, before me, the undersigned notary public, personally appeared Kerry A. Flynn (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.

Lauren M. DeVincenzo
Notary Public
My Commission Expires: December 23, 2022



ASSIGNMENT

We,

- (1) Robert J. Davies, of Arlington, Massachusetts;
- (2) Jingrong Cao, of Newton, Massachusetts;
- (3) Meghan Elise Cockerill, of Boston, Massachusetts;
- (4) Philip Noel Collier, of Hingham, Massachusetts;
- (5) Michael Paul DeNinno, of Gales Ferry, Connecticut
- (6) Elisabeth Doyle, of Worcester, Massachusetts;
- (7) James Daniel Frantz, of Belmont, Massachusetts;
- (8) Huai Gao, of Arlington, Massachusetts;
- (9) Brian Anthony Goldman, of Brookline, Massachusetts;
- (10) Ronald Lee Grey, Jr., of Mansfield, Massachusetts;
- (11) Anne-Laure Grillot, of Milton, Massachusetts;
- (12) Wenxin Gu, of Concord, Massachusetts;
- (13) James A. Henderson, of Weston, Massachusetts;
- (14) Raul Eduardo Krauss, of Chestnut Hill, Massachusetts;
- (15) Adrienne Lynn Kolpak, of Watertown, Massachusetts;
- (16) Yusheng Liao, of Lexington, Massachusetts;
- (17) Sanjay Shivayogi Magavi, of Cambridge, Massachusetts;
- (18) Francois Maltais, of Tewksbury, Massachusetts
- (19) David Messersmith, of Somerville, Massachusetts;
- (20) Albert Charles Pierce, of Cambridge, Massachusetts;
- (21) Emanuele Perola, of Brookline, Massachusetts;
- (22) Elizabeth Jin-Sun Ryu, of Newton, Massachusetts;
- (23) Joshua Syken, of Jamaica Plain, Massachusetts, and
- (24) Jian Wang, of Newton, 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 50 Northern Avenue, Boston, Massachusetts 02210, 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: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, and filed in the United States Patent and Trademark Office on June 3, 2016, under Application Number 15/173,177, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, filed under the Patent Cooperation Treaty in the United States Receiving Office on June 3, 2016, under Application No. PCT/US2016/035847, 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):

62/171,784	United States of America	June 5, 2015
Application No.	Country	Filing Date

62/326,471	United States of America	April 22, 2016
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.

(I) Robert J. Davies

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Robert J. Davies, 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) Jingrong Cao

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Jingrong Cao, 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) Meghan Elise Cockerill

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Meghan Elise Cockerill, 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: _____

(4) Philip Noel Collier

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Philip Noel Collier, 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) Michael Paul DeNinno

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Michael Paul DeNinno, 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: _____

(6) Elisabeth Doyle

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Elisabeth Doyle, 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: _____

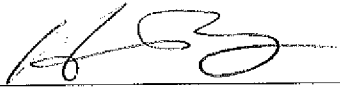
(7) James Daniel Frantz

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared James Daniel Frantz, 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.

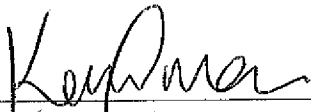
Notary Public
My Commission Expires: _____



(8) Huai Gao

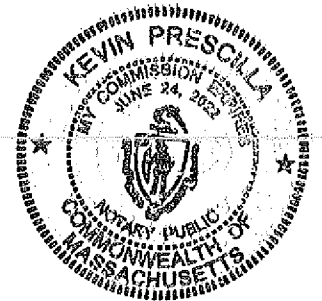
Date: 9/15/2016

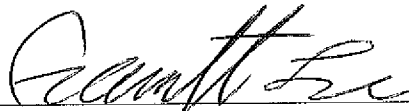
IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

Printed Name of Witness: Kevin Prescilla

this 15 day of September 2016
Date of signing



Signature of witness: (2) 

Printed Name of Witness: Garrett Lee

this 15 day of September 2016
Date of signing

(9) Brian Anthony Goldman

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Brian Anthony Goldman, 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: _____

(10) Ronald Lee Grey, Jr.

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Ronald Lee Grey, Jr., 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: _____

(11) Anne-Laure Grillot

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Anne-Laure Grillot, 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: _____

(12) Wenxin Gu

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Wenxin Gu, 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: _____

(13) James A. Henderson

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

(14) Raul Eduardo Krauss

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

(15) Adrienne Lynn Kolpak

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Adrienne Lynn Kolpak, 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: _____

(16) Yusheng Liao

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Yusheng Liao, 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: _____

(17) Sanjay Shivayogi Magavi

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Sanjay Shivayogi Magavi, 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: _____

(18) Francois Maltais

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Francois Maltais, 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: _____

(19) David Messersmith

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared David Messersmith, 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: _____

(20) Albert Charles Pierce

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Albert Charles Pierce, 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: _____

(21) Emanuele Perola

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Emanuele Perola, 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: _____

(22) Elizabeth Jin-Sun Ryu

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Elizabeth Jin-Sun Ryu, 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: _____

(23) Joshua Syken

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Joshua Syken, 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: _____

(24) Jian Wang

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Jian Wang, 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

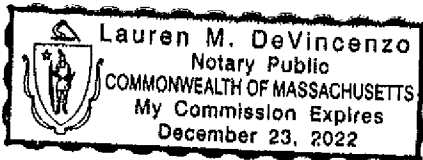
By: *Kerry A. Flynn*
Kerry A. Flynn
Vice President and Chief IP Counsel
on behalf of Vertex Pharmaceuticals Incorporated

Date: September 20, 2016

Commonwealth of Massachusetts
County of Suffolk

On this 20th day of September, 2016, before me, the undersigned notary public, personally appeared Kerry A. Flynn (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.

Lauren M. DeVincenzo
Notary Public
My Commission Expires: December 23, 2022



ASSIGNMENT

We,

- (1) Robert J. Davies, of Arlington, Massachusetts;
- (2) Jingrong Cao, of Newton, Massachusetts;
- (3) Meghan Elise Cockerill, of Boston, Massachusetts;
- (4) Philip Noel Collier, of Hingham, Massachusetts;
- (5) Michael Paul DeNinno, of Gales Ferry, Connecticut
- (6) Elisabeth Doyle, of Worcester, Massachusetts;
- (7) James Daniel Frantz, of Belmont, Massachusetts;
- (8) Huai Gao, of Arlington, Massachusetts;
- (9) Brian Anthony Goldman, of Brookline, Massachusetts;
- (10) Ronald Lee Grey, Jr., of Mansfield, Massachusetts;
- (11) Anne-Laure Grillot, of Milton, Massachusetts;
- (12) Wenxin Gu, of Concord, Massachusetts;
- (13) James A. Henderson, of Weston, Massachusetts;
- (14) Raul Eduardo Krauss, of Chestnut Hill, Massachusetts;
- (15) Adrienne Lynn Kolpak, of Watertown, Massachusetts;
- (16) Yusheng Liao, of Lexington, Massachusetts;
- (17) Sanjay Shivayogi Magavi, of Cambridge, Massachusetts;
- (18) Francois Maltais, of Tewksbury, Massachusetts
- (19) David Messersmith, of Somerville, Massachusetts;
- (20) Albert Charles Pierce, of Cambridge, Massachusetts;
- (21) Emanuele Perola, of Brookline, Massachusetts;
- (22) Elizabeth Jin-Sun Ryu, of Newton, Massachusetts;
- (23) Joshua Syken, of Jamaica Plain, Massachusetts, and
- (24) Jian Wang, of Newton, 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 50 Northern Avenue, Boston, Massachusetts 02210, 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: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, and filed in the United States Patent and Trademark Office on June 3, 2016, under Application Number 15/173,177, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, filed under the Patent Cooperation Treaty in the United States Receiving Office on June 3, 2016, under Application No. PCT/US2016/035847, 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):

62/171,784	United States of America	June 5, 2015
Application No.	Country	Filing Date

62/326,471	United States of America	April 22, 2016
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) Robert J. Davies

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Robert J. Davies, 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) Jingrong Cao

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Jingrong Cao, 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) Meghan Elise Cockerill

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Meghan Elise Cockerill, 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: _____

(4) Philip Noel Collier

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Philip Noel Collier, 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) Michael Paul DeNinno

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Michael Paul DeNinno, 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: _____

(6) Elisabeth Doyle

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Elisabeth Doyle, 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: _____

(7) James Daniel Frantz

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared James Daniel Frantz, 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: _____

(8) Huai Gao

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

(9) Brian Anthony Goldman

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Brian Anthony Goldman, 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: _____

(10) Ronald Lee Grey, Jr.

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Ronald Lee Grey, Jr., 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: _____

(11) Anne-Laure Grillot

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Anne-Laure Grillot, 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: _____

(12) Wenxin Gu

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Wenxin Gu, 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: _____

(13) James A. Henderson

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Raul Krauss

(14) Raul Eduardo Krauss

Date: August 25, 2016

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) Jessica Garand

Printed Name of Witness: Jessica Garand

this 25th day of August
Date of signing

Signature of witness: (2) [Signature]

Printed Name of Witness: KEVIN C. OUTLAND

this 25th day of AUGUST
Date of signing

(15) Adrienne Lynn Kolpak

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Adrienne Lynn Kolpak, 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: _____

(16) Yusheng Liao

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Yusheng Liao, 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: _____

(17) Sanjay Shivayogi Magavi

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Sanjay Shivayogi Magavi, 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: _____

(18) Francois Maltais

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Francois Maltais, 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: _____

(19) David Messersmith

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared David Messersmith, 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: _____

(20) Albert Charles Pierce

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Albert Charles Pierce, 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: _____

(21) Emanuele Perola

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Emanuele Perola, 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: _____

(22) Elizabeth Jin-Sun Ryu

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Elizabeth Jin-Sun Ryu, 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: _____

(23) Joshua Syken

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Joshua Syken, 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: _____

(24) Jian Wang

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Jian Wang, 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

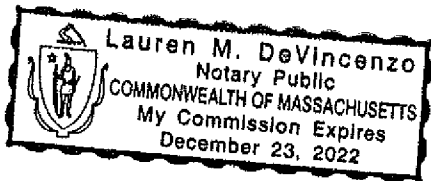
By: Kerry A. Flynn
Kerry A. Flynn
Vice President and Chief IP Counsel
on behalf of Vertex Pharmaceuticals Incorporated

Date: September 20, 2016

Commonwealth of Massachusetts
County of Suffolk

On this 20th day of September, 2016, before me, the undersigned notary public, personally appeared Kerry A. Flynn (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.

Lauren M. DeVincenzo
Notary Public
My Commission Expires: December 23, 2022



ASSIGNMENT

We,

- (1) Robert J. Davies, of Arlington, Massachusetts;
- (2) Jingrong Cao, of Newton, Massachusetts;
- (3) Meghan Elise Cockerill, of Boston, Massachusetts;
- (4) Philip Noel Collier, of Hingham, Massachusetts;
- (5) Michael Paul DeNinno, of Gales Ferry, Connecticut
- (6) Elisabeth Doyle, of Worcester, Massachusetts;
- (7) James Daniel Frantz, of Belmont, Massachusetts;
- (8) Huai Gao, of Arlington, Massachusetts;
- (9) Brian Anthony Goldman, of Brookline, Massachusetts;
- (10) Ronald Lee Grey, Jr., of Mansfield, Massachusetts;
- (11) Anne-Laure Grillot, of Milton, Massachusetts;
- (12) Wenxin Gu, of Concord, Massachusetts;
- (13) James A. Henderson, of Weston, Massachusetts;
- (14) Raul Eduardo Krauss, of Chestnut Hill, Massachusetts;
- (15) Adrienne Lynn Kolpak, of Watertown, Massachusetts;
- (16) Yusheng Liao, of Lexington, Massachusetts;
- (17) Sanjay Shivayogi Magavi, of Cambridge, Massachusetts;
- (18) Francois Maltais, of Tewksbury, Massachusetts
- (19) David Messersmith, of Somerville, Massachusetts;
- (20) Albert Charles Pierce, of Cambridge, Massachusetts;
- (21) Emanuele Perola, of Brookline, Massachusetts;
- (22) Elizabeth Jin-Sun Ryu, of Newton, Massachusetts;
- (23) Joshua Syken, of Jamaica Plain, Massachusetts, and
- (24) Jian Wang, of Newton, 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 50 Northern Avenue, Boston, Massachusetts 02210, 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: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, and filed in the United States Patent and Trademark Office on June 3, 2016, under Application Number 15/173,177, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: TRIAZOLES FOR THE TREATMENT OF DEMYELINATING DISEASES, filed under the Patent Cooperation Treaty in the United States Receiving Office on June 3, 2016, under Application No. PCT/US2016/035847, 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):

62/171,784	United States of America	June 5, 2015
Application No.	Country	Filing Date

62/326,471	United States of America	April 22, 2016
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) Robert J. Davies

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Robert J. Davies, 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) Jingrong Cao

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Jingrong Cao, 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) Meghan Elise Cockerill

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Meghan Elise Cockerill, 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: _____

(4) Philip Noel Collier

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Philip Noel Collier, 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: _____

(S) Michael Paul DeNinno

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Michael Paul DeNinno, 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: _____

(6) Elisabeth Doyle

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Elisabeth Doyle, 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: _____

(7) James Daniel Frantz

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared James Daniel Frantz, 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: _____

(8) Huai Gao

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

(9) Brian Anthony Goldman

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Brian Anthony Goldman, 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: _____

(10) Ronald Lee Grey, Jr.

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Ronald Lee Grey, Jr., 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: _____

(11) Anne-Laure Grillot

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Anne-Laure Grillot, 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: _____

(12) Wenxin Gu

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Wenxin Gu, 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: _____

James A Henderson

(13) James A. Henderson

Date: 8/17/2016

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) [Signature]

Printed Name of Witness: Garth Davis

this 17 day of August 2016
Date of signing

Signature of witness: (2) [Signature]

Printed Name of Witness: Mark Fitzgerald

this 17 day of August 2016
Date of signing

(14) Raul Eduardo Krauss

Date: _____

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

Signature of witness: (2) _____

Printed Name of Witness: _____

this _____ day of _____
Date of signing

(15) Adrienne Lynn Kolpak

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Adrienne Lynn Kolpak, 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: _____

(16) Yusheng Liao

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Yusheng Liao, 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: _____

(17) Sanjay Shivayogi Magavi

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Sanjay Shivayogi Magavi, 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: _____

(18) Francois Maltais

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Francois Maltais, 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: _____

(19) David Messersmith

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared David Messersmith, 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: _____

(20) Albert Charles Pierce

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Albert Charles Pierce, 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: _____

(21) Emanuele Perola

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Emanuele Perola, 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: _____

(22) Elizabeth Jin-Sun Ryu

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Elizabeth Jin-Sun Ryu, 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: _____

(23) Joshua Syken

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Joshua Syken, 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: _____

(24) Jian Wang

Date: _____

Commonwealth of Massachusetts
County of Suffolk

On this _____ day of _____, 2016, before me, the undersigned notary public, personally appeared Jian Wang, 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: *Kerry A. Flynn*
Kerry A. Flynn
Vice President and Chief IP Counsel
on behalf of Vertex Pharmaceuticals Incorporated

Date: September 20, 2016

Commonwealth of Massachusetts
County of Suffolk

On this 20th day of September, 2016, before me, the undersigned notary public, personally appeared Kerry A. Flynn (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.

Lauren M. DeVincenzo
Notary Public
My Commission Expires: December 23, 2022

