## 504019063 09/23/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 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) Adrianne Lynn Kolpak, of Watertown, Massachusetts;
- (16) Yusheng Liao, of Lexington, Massachusetts;
- (17) Sanjay Shivayogi Magavi, of Cambridge, Massachusetts;
- (18) François 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 Jane 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 Jack 3,30%, under Application No. PCT/US/G/35847<sup>2</sup>, 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):

Page 2 of 28

<sup>&</sup>lt;sup>1</sup> We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

<sup>&</sup>lt;sup>2</sup> I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

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

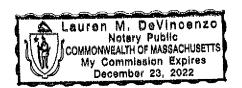
and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

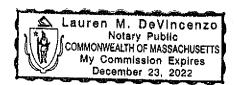
We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had 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. Davin
	(1) Rober	t J. Davies
	Date:	613/2016
Commonwealth of Massachusetts County of Suffolk		
On this day of personally appeared Robert J. Davies, prove identification which was/were: personal (please identify) document, and who swore or affirmed to maccurate to the best of his/her knowledge are	ed to me throwledge of the the co	ough satisfactory evidence of of identity,   a driver's license,   c person whose name is signed on this
Luren M DoVincenza		
Notary Public My Commission Expires:		, 2022





(3) Meghan Elise Cockerill

Date: 8/18/2016

Commonwealth of Massachusetts

County of Suffolk

On this 18th day of Accest , 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 |

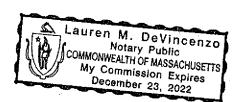
Commonwealth of Massachusetts County of Suffolk

# <b>&gt;</b> [	Name of the second	
On this $\bigcirc Q \bigcirc$	_day of _) WOE_	, 2016, before me, the undersigned notary public,
personally appea	ared Philip Noel Collier,	proved to me through satisfactory evidence of
identification wh	nich was/were: 🔽 persor	nal knowledge of identity, 🗌 a driver's license, 🗌 other
(please identify)		, to be the person whose name is signed on this
document, and v	vho swore or affirmed to	me that the contents of the document are truthful and
accurate to the b	est of his/her knowledge	and belief.

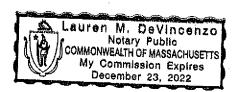
Hown M Do Vincuito

Notary Public

My Commission Expires: December 33, 2022



	Merhal Paul Defino
	(5) Michael Paul DeNinno
	Date: 6-3-2016
personally appeared Michael Paul DeNinno identification which was/were: personal (please identify)	, 2016, before me, the undersigned notary public, o, proved to me through satisfactory evidence of knowledge of identity, [ a driver's license, [ other, to be the person whose name is signed on this le that the contents of the document are truthful and lond belief.
Thuren M DoVincen-	<u>Zo</u>
Notary Public  My Commission Expires:	



Eumbern Oy &.
(6) Elisabeth Doyle
Date: _ \( \) \\ \  \  \  \  \  \  \  \  \  \  \  \
Commonwealth of Massachusetts County of Suffolk
On this /Sth day of At 1905 , 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.
Sauren M DaVincenzo
Notary Public  My Commission Expires: Declarable 33, 3033  Lauren M. DeVincenzo  Notary Public  COMMONWEALTH OF MASSACHUSETTS  My Commission Expires  December 23, 2022

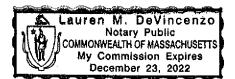
Vertex Pharmaceuticals Incorporated Attorney Docket No.: VPI/14-125 US/WO (//) James Daniel Frantz

Commonwealth of Massachusetts County of Suffolk

On this 300 day of 2010, 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.

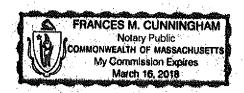
Notary Public

My Commission Expires: Decomber 23, 2022

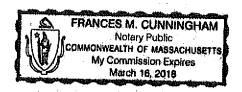


	(8) Huai Gao
	Date:
IN WITNESS WHEREOF, I have he	ereunto set hand and seal
Signature of witness: (1)	
Printed Name of Witness:	
this day of	
Da	ate of signing
Signature of witness: (2)	
Printed Name of Witness:	
this day of	
Da	ate of signing

	Herbert
	(9) Brian Anthony Goldman
	Date:
Commonwealth of Massachusetts	
County of Suffolk	
personally appeared Brian Anthony Goldman	2016, before me, the undersigned notary public, n, proved to me through satisfactory evidence of nowledge of identity, □ a driver's license, □ other
	, 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	
France M. Curningham	
Notary Public	
Notary Public My Commission Expires: 3 14/2018	



	- Konn Zu Lafe.
	(10) Ronald Lee Grey, Jr.
	Date:06/06/2016
Commonwealth of Massachusetts County of Suffolk	
	, 2016, before me, the undersigned notary public,
	roved to me through satisfactory evidence of knowledge of identity,   a driver's license,   other
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accurate to the best of his/her knowledge an	d belief.
Notary Public  My Commission Expires: 3/16/2018	
Notary Public	
My Commission Expires: ジール 2018	



	- Anelane Abol
	(11) Anne-Laure Grillot
	Date: 06/02/2016
personally appeared Anne-Laure Grillot, proidentification which was/were: personal l (please identify)	cnowledge of identity, □ a driver's license, □ other _, to be the person whose name is signed on this that the contents of the document are truthful and
Yauren M. Dovusoura Notary Public My Commission Expires: Decephora	

	Color
	(12) Wenxin Gu
	Date: 6/3/2016
Commonwealth of Massachusetts	
County of Suffolk	
personally appeared Wenxin Gu, proved to which was/were: personal knowledge o identify), to be and who swore or affirmed to me that the	, 2016, before me, the undersigned notary public, o me through satisfactory evidence of identification f identity, ☐ a driver's license, ☐ other (please be the person whose name is signed on this document, contents of the document are truthful and accurate to
the best of his/her knowledge and belief.	
Meurem M De Vencenza Notary Public My Commission Expires: De CENY SOR	Lauren M. DeVincenzo Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires December 23, 2022

	(13) James A. Henderson
	Date:
IN WITNESS WHEREOF, I have hereu	into set hand and seal
Signature of witness: (1)	
Printed Name of Witness:	
this day of Date of	of signing
Signature of witness: (2)	
Printed Name of Witness:	
this day of	
Date of	of signing

	(14) Raul Eduardo Krauss
	Date:
IN WITNESS WHEREOF, I have h	nereunto 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	
$\Gamma$	Date of signing

	4vhr
	(15) Adrianne Lynn Kolpak
	Date:(Q
Commonwealth of Massachusetts County of Suffolk	
personally appeared Adrianne Lynn Kolpak identification which was/were: personal (please identify)	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this e that the contents of the document are truthful and d belief.
Youren M. DeVintenza Notary Public My Commission Expires: <u>Deciambe</u> a	
	,

Lauren M. DeVincenzo
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires
December 23, 2022

Lauren M. DeVincenzo Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires December 23, 2022

Unsheng Kroo (16) Yusheng Liao Date: 6/3/20/6
Commonwealth of Massachusetts County of Suffolk
On this 3cd 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.
Youren M Doveneuro Notary Public
My Commission Expires: December 3, 3093

	for Mys
	(17) Sanjay Shivayogi Magavi
	Date: June 2, 2016
Commonwealth of Massachusetts County of Suffolk	
personally appeared Sanjay Shivayogi Ma	, 2016, before me, the undersigned notary public, igavi, proved to me through satisfactory evidence of alknowledge of identity, \[ \subseteq a driver's license, \[ \subseteq other
(please identify)	, to be the person whose name is signed on this
document, and who swore or affirmed to raccurate to the best of his/her knowledge a	me that the contents of the document are truthful and
accurate to the best of market knowledge a	and benef.
Notary Public  No. Commission Exprises	Lauren M. DeVincenzo Notary Public
My Commission Expires December 2	COMMONWEALTH OF MASSACHUSETTS  My Commission Expires  December 23, 2022

Commonwealth o	of Massachusetts	(18) François Maltais Date: $0.03/16$
County of Suffoll	•	
On this <u>Secl</u> personally appear	day of <u>une</u> ed Francois Maltais, prov	_, 2016, before me, the undersigned notary public, ed to me through satisfactory evidence of

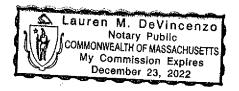
identification which was/were: personal knowledge of identity, a driver's license, other

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.

(please identify)

Notary Public My Commission Expires: <u>Decembe</u>ル 33, 2023



\_\_\_\_, to be the person whose name is signed on this

(19) David Messersmith

ate: <u>08</u>

Commonwealth of Massachusetts County of Suffolk

Yauren M Do Vincento Notary Public

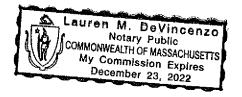
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Lauren M. DeVincenzo
Notary Public
COMMONWEALTH OF MASSACHUSETTS
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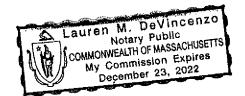
	allest Bur
(20)	Albert Charles Pierce
Date	:_ June 3, 2016
Commonwealth of Massachusetts County of Suffolk  On this Social day of Suffolk, 2016 personally appeared Albert Charles Pierce, proved identification which was/were: personal knowl (please identify) to document, and who swore or affirmed to me that the accurate to the best of his/her knowledge and believed.	I to me through satisfactory evidence of edge of identity, □ a driver's license, □ other be the person whose name is signed on this he contents of the document are truthful and
Lauren M Do Vincen Ze Notary Public	)
Notary Public  My Commission Expires: Decision Commission Expires:	93,000 <u>\</u>

	Country fol
•	(21) Emanuele Perola
	Date: 6/2/2016
Commonwealth of Massachusetts	
County of Suffolk	
personally appeared Emanuele Perola, providentification which was/were: personal (please identify)	_, 2016, before me, the undersigned notary public, ed to me through satisfactory evidence of knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this e that the contents of the document are truthful and
accurate to the best of his/her knowledge an	nd belief.
Lewron M Do Vinconzo Notary Public	
My Commission Expires:	と



	CCL
	(22) Elizabeth Jin-Sun Ryu
	Date: 3 JUNE 2016
personally appeared Elizabeth Jin-Sun Ryu, identification which was/were: personal left (please identify)	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of knowledge of identity, ☐ a driver's license, ☐ other _, to be the person whose name is signed on this e that the contents of the document are truthful and d belief.
Motary Public My Commission Expires: Decamber 3	

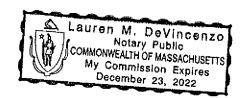
	(23) Joshua Syken Date:
personally appeared Joshua Syken, proved to which was/were: personal knowledge of i identify), to be and who swore or affirmed to me that the contact of the contact	2016, before me, the undersigned notary public, me through satisfactory evidence of identification dentity, □ a driver's license, □ other (please the person whose name is signed on this document, ntents of the document are truthful and accurate to
the best of his/her knowledge and belief.  Hours My Downson Zo  Notary Public  My Commission Expires:	2 2 03, 2022



	->W-6
	(24) Jian Wang
	Date: August 9,2016
Commonwealth of Massachusetts County of Suffolk	
personally appeared Jian Wang, proved to me which was/were: personal knowledge of identify), to be and who swore or affirmed to me that the cor	2016, before me, the undersigned notary public, e through satisfactory evidence of identification dentity,   a driver's license,   other (please the person whose name is signed on this document, needs of the document are truthful and accurate to
the best of his/her knowledge and belief.	
Hauren M Doverenzo Notary Public My Commission Expires: Dec. 33,503	Lauren M. DeVincenzo Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires December 23, 2022

## ACKNOWLEDGMENT OF ASSIGNEE

By: Kerry A, Flynn Vice President and Chief IP Counsel on behalf of Vertex Pharmaceuticals Incorporated
Date: September 30,0016
Commonwealth of Massachusetts County of Suffolk
On this
Lauren M Devincerzo Notary Public
My Commission Expires: Tecephon 33, 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) Adrianne 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

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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:
	lth of Massachusetts	
County of Su	HOIK	
On this	day of	, 2016, before me, the undersigned notary public,
personally ap	peared Robert J. Dav	ies, proved to me through satisfactory evidence of personal knowledge of identity, ☐ a driver's license, ☐ other
identification (please identi	fv)	to be the person whose name is signed on this
document, an	d who swore or affirm	med to me that the contents of the document are truthful and
	e best of his/her knov	
Notary Publi	c	<del></del>
My Commiss	sion Expires:	

	(2) Jingrong Cao
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Jingrong Cao, proved to which was/were:   personal knowledge of identify)  and who swore or affirmed to me that the co	, 2016, before me, the undersigned notary public, o me through satisfactory evidence of identification identity,  a driver's license,  the person whose name is signed on this document, ontents 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	
personally appeared Meghan Elise Coclidentification which was/were: perso (please identify)	, 2016, before me, the undersigned notary public, cerill, proved to me through satisfactory evidence of anal knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this o me that the contents of the document are truthful and e and belief.
Notary Public My Commission Expires:	

	(4) Philip Noel Collier
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Philip Noel Collier, pidentification which was/were: personal (please identify) document, and who swore or affirmed to	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of al knowledge of identity, a driver's license, other, to be the person whose name is signed on this 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:	
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		(5) Michael Paul DeNinno
		Date:
Commonweat County of Su	alth of Massachusetts uffolk	
personally ap identification (please ident document, an	ppeared Michael Paul I n which was/were: ☐ ] ify)	, 2016, before me, the undersigned notary public, DeNinno, proved to me through satisfactory evidence of personal knowledge of identity,  a driver's license,  other, to be the person whose name is signed on this med to me that the contents of the document are truthful and wledge and belief.
Notary Publi	ic sion Expires:	

	(6) Elisabeth Doyle
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Elisabeth Doyle, pr identification which was/were: [] person (please identify)	, 2016, before me, the undersigned notary public, oved to me through satisfactory evidence of nal knowledge of identity, a driver's license, other, to be the person whose name is signed on this o me that the contents of the document are truthful and e and belief.
Notary Public	
My Commission Expires:	<u>_</u>

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	(7) James Daniel Frantz
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared James Daniel Frantz, pridentification which was/were: personal left (please identify) document, and who swore or affirmed to me	, 2016, before me, the undersigned notary public, roved to me through satisfactory evidence of knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this e that the contents of the document are truthful and
accurate to the best of his/her knowledge an	d bener.
Notary Public	
My Commission Expires:	

IN WITNESS WHEREOF, I have hereunto set hand and seal	
Signature of witness: (1) WWW Presculs	PRESCONDENSION OF THE STATE OF
Printed Name of Witness:	
this 5 day of September 2016 Date of signing	CSIA POPULO OF THE PROPERTY OF
Signature of witness: (2)	
Printed Name of Witness: Garrett Lee	
this 15 day of September 2016	
Date of signing	

		(9) Brian Anthony Goldman
		Date:
Commonwer County of Si	alth of Massachusetts uffolk	
personally apidentification (please identidocument, apidentidocument, apidentidocume	ppeared Brian Anthon n which was/were:  ify) nd who swore or affirr	, 2016, before me, the undersigned notary public, y Goldman, proved to me through satisfactory evidence of personal knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this med to me that the contents of the document are truthful and
accurate to the	he best of his/her knov	vledge and belief.
Notary Publi		
My Commis	sion Expires:	

	(10) Ronald Lee Grey, Jr.
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Ronald Lee Grey, Jr., j identification which was/were: ☐ personal (please identify)	_, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this e that the contents of the document are truthful and had belief.
Notary Public My Commission Expires:	

		The second secon
		(11) Anne-Laure Grillot
		Date:
Commonwea County of St	alth of Massachusetts affolk	
personally aj identificatios (please ident	opeared Anne-Laure C n which was/were: [] ify)	, 2016, before me, the undersigned notary public, frillot, proved to me through satisfactory evidence of personal knowledge of identity, \subseteq a driver's license, \subseteq other, to be the person whose name is signed on this med to me that the contents of the document are truthful and
accurate to the state of the st	ne best of his/her knov	vledge and belief.
· ·	sion Expires:	

	(12) Wenxin Gu
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Wenxin Gu, proved which was/were:   personal knowledge identify)  to	, 2016, before me, the undersigned notary public, to me through satisfactory evidence of identification of identity, \[ \subseteq a driver's license, \[ \subseteq other (please be the person whose name is signed on this document, e 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 he	reunto set hand and seal
Signature of witness: (1)	
Printed Name of Witness:	
this day of Da	ite of signing
Signature of witness: (2)	
Printed Name of Witness:	
this day of	
Da	nte of signing

		(14) Raul Eduardo Krauss	
		Date:	
IN WITNES	S WHEREOF, I ha	ave hereunto set hand and seal	
Printed Name	e of Witness:		
this	day of	Date of signing	
Signature of	witness: (2)		
Printed Nam	e of Witness:		
this	day of	Date of signing	

	(15) Adrianne Lynn Kolpak
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Adrianne Lynn Kolpak, identification which was/were: personal left (please identify) document, and who swore or affirmed to me	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this e that the contents of the document are truthful and
accurate to the best of his/her knowledge and	d belief,
Notary Public	
My Commission Expires:	

	(16) Yusheng Liao
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Yusheng Liao, proved which was/were: personal knowledge o identify), to be and who swore or affirmed to me that the or	, 2016, before me, the undersigned notary public, I to me through satisfactory evidence of identification f identity, \[ \subseteq a driver's license, \[ \subseteq other (please be the person whose name is signed on this document, 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	
personally appeared Sanjay Shivayogi Magidentification which was/were: personal (please identify)	, 2016, before me, the undersigned notary public, gavi, proved to me through satisfactory evidence of knowledge of identity, a driver's license, other, to be the person whose name is signed on this ne that the contents of the document are truthful and nd belief.
Notary Public	
My Commission Expires:	

		(18) Francois Maltais
		Date:
Commonwe	alth of Massachusetts	
County of S	uffolk	
identificatio (please iden document, a	n which was/were:  tify)	, 2016, before me, the undersigned notary public, tais, proved to me through satisfactory evidence of personal knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this med to me that the contents of the document are truthful and wledge and belief.
Notary Publ	ic ssion Expires:	
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		The state of the s
		(19) David Messersmith
		Date:
Commonwe County of Su	alth of Massachusetts affolk	
personally apidentification	ppeared David Messer n which was/were:	, 2016, before me, the undersigned notary public, smith, proved to me through satisfactory evidence of personal knowledge of identity, \[ \subseteq a driver's license, \[ \subseteq other to be the person whose pame is signed on this
document, a	nd who swore or affirm the best of his/her know	, to be the person whose name is signed on this med to me that the contents of the document are truthful and wledge and belief.
Notary Publi	c cion Evnires	
viv i ammie	SIOD EXDUES.	

	(20) Albert Charles Pierce
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Albert Charles Pi identification which was/were: ☐ pers (please identify)	, 2016, before me, the undersigned notary public, erce, proved to me through satisfactory evidence of sonal knowledge of identity,  a driver's license,  other, to be the person whose name is signed on this it to me that the contents of the document are truthful and lige and belief.
Notary Public	

	(21) Emanuele Perola
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Emanuele Perola, pro- identification which was/were: personal (please identify) document, and who swore or affirmed to n	, 2016, before me, the undersigned notary public, wed to me through satisfactory evidence of I knowledge of identity, a driver's license, other, to be the person whose name is signed on this ne that the contents of the document are truthful and and belief.
Notary Public My Commission Expires:	

2) Elizabeth Jin-Sun Ryu
ate:
016, before me, the undersigned notary public, oved to me through satisfactory evidence of owledge of identity,   a driver's license,   other to be the person whose name is signed on this at the contents of the document are truthful and elief.

	(23) Joshua Syken
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Joshua Syken, proved to which was/were: personal knowledge of identify), to be and who swore or affirmed to me that the cor	the person whose name is signed on this document, needs 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:
Commonwea County of Su	alth of Massachusett affolk	s
personally ap which was/w identify) and who swo	opeared Jian Wang, pere: ☐ personal known bre or affirmed to me	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of identification by by by by a driver's license, \ other (please, to be the person whose name is signed on this document, at that the contents of the document are truthful and accurate to display belief.
Notary Publi		
Mrt Cammia	oian Euniraa	

## ACKNOWLEDGMENT OF ASSIGNEE

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

Date: September 3016

Commonwealth of Massachusetts
County of Suffolk

On this Jan day of January 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.

Hugher M. Dormalia December 33,3000.

Lauren M. DeVincenzo
Notary Public
COMMONWEALTH OF MASSACHUSETTS
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) Adrianne Lynn Kolpak, of Watertown, Massachusetts;
- (16) Yusheng Liao, of Lexington, Massachusetts;
- (17) Sanjay Shivayogi Magavi, of Cambridge, Massachusetts;
- (18) François 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.

Robert J. Davies
•
6, before me, the undersigned notary public, ne through satisfactory evidence of edge of identity,   a driver's license,   other be the person whose name is signed on this the contents of the document are truthful and ef.

	(2) Jingrong Cao
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Jingrong Cao, proved to which was/were:   personal knowledge of identify)  to be and who swore or affirmed to me that the co	, 2016, before me, the undersigned notary public, o me through satisfactory evidence of identification identity,  a driver's license,  other (please the person whose name is signed on this document, ontents 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	
personally appeared Meghan Elise Cockerill identification which was/were: ☐ personal k (please identify)	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of nowledge of identity, ☐ a driver's license, ☐ other _, to be the person whose name is signed on this that the contents of the document are truthful and
accurate to the best of his/her knowledge and	l belief.
Notary Public	
My Commission Expires:	

	(4) Philip Noel Collier
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Philip Noel Collier, pro- identification which was/were: personal (please identify) document, and who swore or affirmed to me	2016, before me, the undersigned notary public, oved to me through satisfactory evidence of knowledge of identity, □ a driver's license, □ other _, to be the person whose name is signed on this e that the contents of the document are truthful and belief.
accurate to the best of his/her knowledge an	id Denet.
Notary Public	
My Commission Expires:	

	(5) Michael Paul DeNinno
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Michael Paul DeNinno identification which was/were:   personal (please identify)	_, 2016, before me, the undersigned notary public, o, proved to me through satisfactory evidence of knowledge of identity, \[ a driver's license, \[ \] other, to be the person whose name is signed on this e that the contents of the document are truthful and had belief.
Notary Public My Commission Expires:	

Notary Public My Commission Expires:	
Notary Duklia	
accurate to the best of his/her knowledge at	te that the contents of the document are truthful and nd belief.
(please identify)	, to be the person whose name is signed on this
	knowledge of identity, □ a driver's license, □ other
personally appeared Elisabeth Doyle, prove	ed to me through satisfactory evidence of
On this day of	_, 2016, before me, the undersigned notary public,
County of Suffolk	
Commonwealth of Massachusetts	
	Date:
	•
	(6) Elisabeth Doyle

	(7) James Daniel Frantz
	Date:
Commonwealth of Massachuset County of Suffolk	ts
personally appeared James Dani identification which was/were: [ (please identify)	
Notary Public My Commission Expires:	
111 Commission Publics.	

	(8) Huai Gao
	Date:
IN WITNESS WHEREOF, I have here	cunto set hand and seal
Signature of witness: (1)	
Printed Name of Witness:	
this day of Date	
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	
personally appeared Brian Anthony Goldmaidentification which was/were:   personal (please identify)	_, 2016, before me, the undersigned notary public, an, proved to me through satisfactory evidence of knowledge of identity, [ a driver's license,  other _, to be the person whose name is signed on this e that the contents of the document are truthful and belief
Notary Public	a bener.
My Commission Expires:	

10) Danield Lag Cray Iv
0) Ronald Lee Grey, Jr.
ate:
016, before me, the undersigned notary public, wed to me through satisfactory evidence of owledge of identity,   a driver's license,   other to be the person whose name is signed on this nat the contents of the document are truthful and belief.

	(11) Anne-Laure Grillot
	Date:
Commonwealth of Massachusetts County of Suffolk	•
personally appeared Anne-Laure Grillot, identification which was/were: ☐ person (please identify) document, and who swore or affirmed to	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of all knowledge of identity, a driver's license, other, to be the person whose name is signed on this me that the contents of the document are truthful and
accurate to the best of his/her knowledge	and belief.
Notany Public	<u>-</u>
Notary Public My Commission Expires:	_

		(12) Wenxin Gu
		Date:
Commonwe County of St	alth of Massachusetts uffolk	
personally ap which was/w identify)	ppeared Wenxin Gu, p vere: ☐ personal knov	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of identification wledge of identity,   a driver's license,   other (please   to be the person whose name is signed on this document,  hat the contents of the document are truthful and accurate to
	is/her knowledge and	
NI-4 D. 1.11	•	
Notary Publi	sion Expires:	
~ OIIIIII	~~~~ — — — — — — — — — — — — — — — — —	

	(13) James A. Henderson	
	Date:	
IN WITNESS WHEREOF, I have I	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	
L	Auto or signing	

Rank Krany

Date: August 25, 2016

(14) Raul Eduardo Krauss

IN WITNESS WHEREOF, I have hereunto set hand and se	al
Signature of witness: (1) Junice Juan  Printed Name of Witness: Jessica Garan	
this 25 <sup>th</sup> day of Hugust  Date of signing	
Signature of witness: (2)	
Printed Name of Witness: KEVIN (), OUTLAND	
this 25 day of August  Date of signing	

	(15) Adrianne Lynn Kolpak
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Adrianne Lynn Kolpak identification which was/were: personal left (please identify) document, and who swore or affirmed to me	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of knowledge of identity,  ☐ a driver's license, ☐ other, to be the person whose name is signed on this e that the contents of the document are truthful and
accurate to the best of his/her knowledge an	d belief.
Notary Public	
My Commission Expires:	

		THE TOTAL PROPERTY OF THE PARTY
		(16) Yusheng Liao
		Date:
Commonwe.	alth of Massachusetts uffolk	
personally ap which was/w identify) and who swo	ppeared Yusheng Liad vere:  personal know ore or affirmed to me	
the best of h	is/her knowledge and	belief.
27		
Notary Publi	ic sion Expires:	
Tray Commins	DIOII DAPITODI	

	(17) Sanjay Shivayogi Magavi
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Sanjay Shivayogi Mag identification which was/were: ☐ personal (please identify)	_, 2016, before me, the undersigned notary public, avi, proved to me through satisfactory evidence of knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this e that the contents of the document are truthful and hd belief.
Notary Public	
My Commission Expires:	

		(18) François Maltais
		Date:
Commonwer County of St	alth of Massachusetts uffolk	
personally ap dentification please ident locument, an	ppeared Francois Malt n which was/were: ☐ ify)	, 2016, before me, the undersigned notary public, ais, proved to me through satisfactory evidence of personal knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this med to me that the contents of the document are truthful and wledge and belief.
Notary Publi	ic sion Expires:	

	(19) David Messersmith
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared David Messersmith, pridentification which was/were: personal (please identify) document, and who swore or affirmed to m	_, 2016, before me, the undersigned notary public, roved to me through satisfactory evidence of knowledge of identity,  a driver's license,  other  , to be the person whose name is signed on this e that the contents of the document are truthful and had belief.
TOOKII MOTOTIONISTI TITTIISTIONISTI KITOTIONISTI	********
Notary Public	
My Commission Expires:	

	(20) Albert Charles Pierce  Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Albert Charles Pierce, identification which was/were:   personal	_, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of knowledge of identity,   _ a driver's license,   _ to be the person whose name is signed on this
document, and who swore or affirmed to n accurate to the best of his/her knowledge a	ne that the contents of the document are truthful and
Notary Public My Commission Expires:	

		(21) Emanuele Perola
		Date:
Commonwea County of Su	lth of Massachusetts ffolk	
personally ap dentification please identi document, an	peared Emanuele Perwhich was/were: [] perfy)	
Notary Public	;	rledge and belief.

		(22) Elizabeth Jin-Sun Ryu
		Date:
Commonwer County of Su	alth of Massachusetts uffolk	
personally ap identification (please ident	opeared Elizabeth Jin-S n which was/were: [] p ify)	, 2016, before me, the undersigned notary public, Sun Ryu, proved to me through satisfactory evidence of personal knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this lied to me that the contents of the document are truthful and
		ledge and belief.
Noton Del !		
Notary Publi Mv Commis	c sion Expires:	

	(23) Joshua Syken
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Joshua Syken, proved which was/were: personal knowledge of identify), to be and who swore or affirmed to me that the control of the cont	_, 2016, before me, the undersigned notary public, to me through satisfactory evidence of identification f identity, \( \subseteq \) a driver's license, \( \subseteq \) other (please the person whose name is signed on this document, contents of the document are truthful and accurate to
Notary Public	
My Commission Expires:	

		(24) Jian Wang
		Date:
Commonwer County of St	alth of Massachusetts uffolk	
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.		
the best of in	is/nor knowledge and	JOHO!.
Notary Publi	ic	
•	sion Expires:	

## ACKNOWLEDGMENT OF ASSIGNEE

Ву: \_

Kerry/A. Flynn

Vice President and Chief IP Counsel

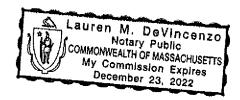
on behalf of Vertex Pharmaceuticals Incorporated

Date: Soption for 50 2016

Commonwealth of Massachusetts County of Suffolk

Youren M Do Vincenzo Notary Public

My Commission Expires: December 33, 2002



## 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) Adrianne 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

Page 1 of 28

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	
personally appeared Robert J. Davies, proidentification which was/were:  personal pe	, 2016, before me, the undersigned notary public, oved to me through satisfactory evidence of al knowledge of identity, a driver's license, other, to be the person whose name is signed on this me that the contents of the document are truthful and and belief.
Notary Public My Commission Expires:	_

(2) Jingrong Cao  Date:
Date:
Commonwealth of Massachusetts County of Suffolk
On this
the best of his/her knowledge and belief.
Notary Public My Commission Expires:

	(3) Meghan Elise Cockerill
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Meghan Elise Cocker identification which was/were: persona (please identify) document, and who swore or affirmed to n	, 2016, before me, the undersigned notary public, ill, proved to me through satisfactory evidence of l knowledge of identity, , to be the person whose name is signed on this ne that the contents of the document are truthful and
accurate to the best of his/her knowledge a	ind belief.
Notary Public	
My Commission Expires:	

		(4) Philip Noel Collier
		Date:
Commonweat County of Su	alth of Massachusetts uffolk	
personally ap identification (please ident document, an	opeared Philip Noel Con which was/were: ☐ ify)	, 2016, before me, the undersigned notary public, collier, proved to me through satisfactory evidence of personal knowledge of identity, \[ \subseteq a driver's license, \[ \subseteq other \] to be the person whose name is signed on this med to me that the contents of the document are truthful and reduced and helicif
accurate to the	ne best of his/her kno	wiedge and benef.
Notary Publi	С	
•	sion Expires:	

		(5) Michael Paul DeNinno
		Date:
Commonwea	alth of Massachusetts	
County of Su	ıffolk	
personally apidentification	opeared Michael Paul n which was/were:	, 2016, before me, the undersigned notary public, DeNinno, proved to me through satisfactory evidence of personal knowledge of identity, □ a driver's license, □ other , to be the person whose name is signed on this
document, ar	nd who swore or affirm ne best of his/her knov	med to me that the contents of the document are truthful and
Notary Publi	c	<del></del>
My Commis	sion Expires:	

		(6) Elisabeth Doyle
		Date:
Commonwea County of Su	alth of Massachusetts uffolk	
personally ap identification (please ident document, and	opeared Elisabeth Doy n which was/were: ify)	, 2016, before me, the undersigned notary public, yle, proved to me through satisfactory evidence of personal knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this med to me that the contents of the document are truthful and wledge and belief.
Notary Publi	c sion Expires	

	(7) James Daniel Frantz
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared James Daniel Frantz, p identification which was/were: personal (please identify) document, and who swore or affirmed to me	_, 2016, before me, the undersigned notary public, roved to me through satisfactory evidence of knowledge of identity, _ a driver's license, _ other _ , to be the person whose name is signed on this e that the contents of the document are truthful and
accurate to the best of his/her knowledge ar	nd belief.
Notary Public	
My Commission Expires:	

	- Water
	(8) Huai Gao
	Date:
IN WITNESS WHEREOF, I have	e 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	
personally appeared Brian Anthony Goldmaidentification which was/were: personal (please identify) document, and who swore or affirmed to make the personal document.	_, 2016, before me, the undersigned notary public, an, proved to me through satisfactory evidence of knowledge of identity,  a driver's license,  other , to be the person whose name is signed on this e that the contents of the document are truthful and
accurate to the best of his/her knowledge ar	nd belief.
Notary Public	
My Commission Expires:	

		(10) Ronald Lee Grey, Jr.
		Date:
Commonwealth County of Suff	h of Massachuset olk	rts
personally apper identification w (please identify document, and	eared Ronald Lee which was/were:   who swore or af	
accurate to the	best of his/her ki	nowledge and belief.
Notary Public		
My Commission	on Expires:	

	(11) Anne-Laure Grillot
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Anne-Laure Grillot, pro- identification which was/were:  personal k (please identify)	nowledge of identity,  a driver's license,  other to be the person whose name is signed on this that the contents of the document are truthful and
Notary Public	
My Commission Expires:	

		(12) Wenxin Gu
		Date:
Commonwe County of S	alth of Massachusetts uffolk	
personally a which was/v identify) and who swe	ppeared Wenxin Gu, p vere: ☐ personal know ore or affirmed to me t	, 2016, before me, the undersigned notary public, roved to me through satisfactory evidence of identification redge of identity, \subseteq a driver's license, \subseteq other (please, to be the person whose name is signed on this document, that the contents of the document are truthful and accurate to
the best of h	is/her knowledge and l	pelief.
Notary Publ	sion Expires:	
Iviy Commins	BIOM HAPHOS.	

((3) James A. Henderson

IN WITNESS WHEREOF, I have hereunto set hand and seal
Signature of witness: (1)
Printed Name of Witness: <u>Garth</u> Davis
this 17 day of Angust 2016  Date of signing
Signature of witness: (2) Male Hayler
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 here	cunto set hand and seal	
Signature of witness: (1)		
Printed Name of Witness:		
this day of Date		
Date	e of signing	
Signature of witness: (2)		
Printed Name of Witness:		
this day of		
Date	of signing	

		(15) Adrianne Lynn Kolpak
		Date:
	alth of Massachusetts	
County of Su	iffolk	
personally ap identification (please identi document, an	opeared Adrianne Lynn on which was/were:  one properties one prope	, 2016, before me, the undersigned notary public, in Kolpak, proved to me through satisfactory evidence of personal knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this need to me that the contents of the document are truthful and wledge and belief.
Notary Public	c	

		(16) Yusheng Liao
		Date:
Commonwer County of Su	alth of Massachusetts affolk	S
personally at which was/w identify)	ppeared Yusheng Lia vere: [] personal kno	, 2016, before me, the undersigned notary public, o, proved to me through satisfactory evidence of identification wledge of identity, \[ \subseteq a driver's license, \[ \subseteq other (please, to be the person whose name is signed on this document, that the contents of the document are truthful and accurate to
the best of hi	is/her knowledge and	belief.
Notary Publi	c	
	sion Expires:	

		(17) Sanjay Shivayogi Magavi
		Date:
Commonwe County of S	alth of Massachusetts uffolk	
personally a identification (please ident	ppeared Sanjay Shivay n which was/were: ☐ tify)	, 2016, before me, the undersigned notary public, yogi Magavi, proved to me through satisfactory evidence of personal knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this
		ned to me that the contents of the document are truthful and wledge and belief.
Notary Publi	ic	
My Commis	sion Expires:	

		(18) Francois Maltais
		Date:
Commonwea County of Su	lth of Massachusetts ffolk	
personally ap identification (please identi document, an	peared Francois Malt which was/were: fy)	, 2016, before me, the undersigned notary public, ais, proved to me through satisfactory evidence of personal knowledge of identity, ☐ a driver's license, ☐ other, to be the person whose name is signed on this med to me that the contents of the document are truthful and wledge and belief.
Notary Public My Commiss		

	(19) David Messersmith
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared David Messersmith, pidentification which was/were: ☐ persona (please identify) document, and who swore or affirmed to provide the personal document.	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of a knowledge of identity, a driver's license, other, to be the person whose name is signed on this me that the contents of the document are truthful and and belief.
Notary Public My Commission Expires:	

		(20) Albert Charles Pierce
		Date:
Commonwea County of Su	alth of Massachusetts affolk	
personally ap identificatior (please ident document, ar	opeared Albert Charles n which was/were: 🔲 j ify)	, 2016, before me, the undersigned notary public, s Pierce, proved to me through satisfactory evidence of personal knowledge of identity, [] a driver's license, [] other, to be the person whose name is signed on this ned to me that the contents of the document are truthful and yledge and belief.
•		
Notary Publi	c Sion Expires:	

•	
	(21) Emanuele Perola
	Date:
Commonwealth of Massachusetts County of Suffolk	
personally appeared Emanuele Perola, pidentification which was/were: personal person	, 2016, before me, the undersigned notary public, proved to me through satisfactory evidence of onal knowledge of identity,  a driver's license,  other, to be the person whose name is signed on this o me that the contents of the document are truthful and the and ballef
accurate to the best of his/her knowledg	ge and benef.
Notary Public	
My Commission Expires:	

		(22) Elizabeth Jin-Sun Ryu
		Date:
Commonweal County of Sur	lth of Massachusetts ffolk	
personally applied identification (please identification document, and	peared Elizabeth Jin- which was/were: [] fy) d who swore or affiri	, 2016, before me, the undersigned notary public, Sun Ryu, proved to me through satisfactory evidence of personal knowledge of identity, □ a driver's license, □ other, to be the person whose name is signed on this ned to me that the contents of the document are truthful and wledge and belief.
Notary Public My Commissi		

		(23) Joshua Syken
		Date:
Commonwer County of St	alth of Massachusetts uffolk	
personally ap which was/w identify) and who swo	opeared Joshua Syken vere: personal known ore or affirmed to me	, 2016, before me, the undersigned notary public, a, proved to me through satisfactory evidence of identification wledge of identity,   a driver's license,   other (please to be the person whose name is signed on this document, that the contents of the document are truthful and accurate to
the best of hi	s/her-knowledge-and-	belief.
Notary Publi	c	
My Commis	sion Expires:	

	(24) Jian Wang
	Date:
Commonwealth of Mass County of Suffolk	chusetts
County of Surioik	
personally appeared Jian which was/were:  persidentify)and who swore or affirm	, 2016, before me, the undersigned notary public, Wang, proved to me through satisfactory evidence of identification nal knowledge of identity, \[ \] a driver's license, \[ \] other (please, to be the person whose name is signed on this document, d to me that the contents of the document are truthful and accurate to dge and belief.
Notary Public  Vo Commission Expires	age and benefit

## ACKNOWLEDGMENT OF ASSIGNEE

Vice President and Chief IP Counsel

on behalf of Vertex Pharmaceuticals Incorporated

Date: September 20, 2016

Commonwealth of Massachusetts County of Suffolk

On this Soth 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: \( \subseteq \text{ personal knowledge of identity, } \subseteq a \_\_\_\_\_, to be the person whose name driver's license, ☐ other (please identify) 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.

Herron M DeVincenzo Notary Public

My Commission Expires: <u>Decembor</u> 33, 2002

