502592181 12/05/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2638390

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOQING YANG	07/07/2010
SARA S HADIDA RUAH	06/09/2010
PETER D.J. GROOTENHUIS	03/19/2010
FREDRICK F. VAN GOOR	05/24/2010
MARTYN C. BOTFIELD	06/25/2010
GREGOR ZLOKARNIK	06/09/2010

RECEIVING PARTY DATA

Name:	VERTEX PHARMACEUTICALS INCORPORATED
Street Address:	130 WAVERLY STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14084203

CORRESPONDENCE DATA

Fax Number: (617)341-6483 Phone: 8584045358

Email: usptopatents@vrtx.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful. VERTEX PHARMACEUTICALS INCORPORATED Correspondent Name:

Address Line 1: 130 WAVERLY STREET

Address Line 4: CAMBRIDGE, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER:	VPI/08-151 USW CN1 DV1
NAME OF SUBMITTER:	LAUREN M. DEVINCENZO

REEL: 031724 FRAME: 0127 502592181

Signature:	/Lauren M. DeVincenzo/
Date:	12/05/2013
Total Attachments: 27	
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PATENT REEL: 031724 FRAME: 0128

ASSIGNMENT

We,

- (1) Xiaoqing Yang, of 4526 Vereda Mar de Ponderosa, San Diego, CA 92130;
- (2) Sara S. Hadida Ruah, of 2356 Torrey Pines Road, #16, La Jolla, CA 92037;
- (3) Peter D.J. Grootenhuis, of 4801 Riding Ridge Road, San Diego, CA 92130;
- (4) Fredrick F. van Goor, of 832 Ormond Court, San Diego, CA 92109;
- (5) Martyn C. Botfield, of 47 Walden Terrace, Concord, MA 01742; and
- (6) Gregor Zlokarnik, of 2754 Palomino Circle, La Jolla, CA 92037; 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 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:
- (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:
- (a) the International Patent Application entitled: MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, filed under the Patent Cooperation Treaty in the United States Receiving Office on March 19, 2010, under Application No. PCT/US2010/028062, 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):

61/162,130	US	March 20, 2009
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.

Xi	aoqing Yang
Da	ite:
IN WITNESS WHEREOF, I have hereunto set	hand and seal
Signature of witness: (1)	·
Printed Name of Witness:	
this day of	·
Date of signing	
IN WITNESS WHEREOF, I have hereunto set	hand and seal
Signature of witness: (2)	
Printed Name of Witness:	
this day of	•
Date of signing	

Sara S. Hadida Ruah Date: <u>6/9/201</u>0 State of California before me, OFELIA ROSADO-NOTARY (insert name and title of the officer) personally appeared Sara S. Hadida Ruah, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. OFELIA ROSADO COMM. # 1888474

	Peter D.J. G	rootenhuis		
	Date:			
State of California		•		
County of				
On be	efore me,	name and title of the	a officer)	
personally appeared Peter D.J. Groot evidence to be the person(s) whose n acknowledged to me that he/she/they and that by his/her/their signature(s) which the person(s) acted, executed t	tenhuis, who proved tame(s) is/are subscr executed the same on the instrument th	to me on the libed to the winn his/her/thei	basis of satist thin instrume r authorized	ent and capacity(ies),
I certify under PENALTY OF PERJU foregoing paragraph is true and corre		of the State o	f California t	that the
WITNESS my hand and official seal.	•			
Signature		(Seal)		

Fredrick F. van Goor before me, OFELIA personally appeared Fredrick F. van Goor, who proved to me on the basis of satisfactory evidence to be the person(s)-whose name(s) is/are-subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the (Seal)

6

Signature 2

State of California

County of Son Diego

foregoing paragraph is true and correct.

WITNESS my hand and official seal.

OFELIA ROSADO COMM.# 1888474

SAN-DIEGO COUNTY MY COMM. EXP. MAY 7, 2014

Commonwealth of Massachusetts County of
County of
On this 25th day of 1000, 2010, before me, the undersigned notary public, personally appeared Martyn C. Botfield, proved to me through satisfactory evidence of
identification which was/were: Deprisonal 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 truthfu
and accurate to the best of his/her knowledge and belief.
and accurate to the best of mis/her knowledge and benefit.
Notary Public: Lisa M. Romano My Commission Expires: 5-13-2016 LISA M. ROMANO Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires My Commission Expires

Martyn C. Botfield

25 JUNE 2010

Gregor Zlokarnik
Date: June 514, 2010

State of California

County of San Dugo

On June 9th 2010 before me, OFFLIA ROSADO-NOTARY PUBLIC (insert name and title of the officer)

personally appeared Gregor Zlokarnik, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Ofelia Rosatio (Seal)

OFELIA ROSADO
COMM, # 1888474
NOTARY PUBLIC: CALIFORNIA
SAN DIEGO COUNTY
MY COMM, EXP. MAY 7, 2014

ACKNOWLEDGMENT OF ASSIGNEE Chief Patent Counsel VERTEX PHARMACEUTICALS INCORPORATED Commonwealth of Massachusetts County of Middlesex On this 16th day of , 2010, before me, the undersigned notary public, personally appeared Stephen Nesbitt (name of document signer), proved to me through satisfactory evidence of identification which was/were: personal knowledge of identity, a driver's license, other (please identify) person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. LISA M. ROMANO Notary Public COMMONWEALTH OF MASSACHUSETTS

My Commission Expires:

My Commission Expires

May 13, 2016

ASSIGNMENT

We,

- (1) Xiaoqing Yang, of 4526 Vereda Mar de Ponderosa, San Diego, CA 92130;
- (2) Sara S. Hadida Ruah, of 2356 Torrey Pines Road, #16, La Jolla, CA 92037;
- (3) Peter D.J. Grootenhuis, of 4801 Riding Ridge Road, San Diego, CA 92130;
- (4) Fredrick F. van Goor, of 832 Ormond Court, San Diego, CA 92109;
- (5) Martyn C. Botfield, of 47 Walden Terrace, Concord, MA 01742; and
- (6) Gregor Zlokarnik, of 2754 Palomino Circle, La Jolla, CA 92037;

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 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

- (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:
- (a) the International Patent Application entitled: MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, filed under the Patent Cooperation Treaty in the United States Receiving Office on March 19, 2010, under Application No. PCT/US2010/028062, 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):

61/162,130	US	March 20, 2009
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.

IN WITNESS WHEREOF, I have hereunto set hand and seal
Signature of witness: (1)
Printed Name of Witness: ORUANO CASINO
this 1 ^M day of July 2010 Date of signing
IN WITNESS WHEREOF, I have hereunto set hand and seal
Signature of witness: (2) Chun Sant
Printed Name of Witness: Chun Yang
this 7th day of July 2010 Date of signing

Kranging Yang Kang Xiaoqing Yang Date: July 7, 2010

	Sara S. Hadida Ruah	
	Date:	
State of California		
County of		
On	before me,	
personally appeared Sara S. evidence to be the person(s) acknowledged to me that he/	Hadida Ruah, who proved to me on the basis of satisfactory whose name(s) is/are subscribed to the within instrument and she/they executed the same in his/her/their authorized capacity(ature(s) on the instrument the person(s), or the entity upon behaling the person(s).	
I certify under PENALTY Of foregoing paragraph is true a	F PERJURY under the laws of the State of California that the nd correct.	
WITNESS my hand and offi	cial seal.	
Signature	(Seal)	
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	Peter	D.J. Grootenhuis	
	Date:		
State of California			
County of	<u>.</u>	·	
On	before me,	(insert name and title of the off	
personally appeared Peter D.J. Grod evidence to be the person(s) whose acknowledged to me that he/she/the and that by his/her/their signature(s which the person(s) acted, executed	name(s) is/are by executed the on the instrur	subscribed to the withi same in his/her/their a nent the person(s), or the	n instrument and uthorized capacity(ies),
I certify under PENALTY OF PER foregoing paragraph is true and cor	*	e laws of the State of C	California that the
WITNESS my hand and official sea	al.		
			.3
Signature	<u> </u>	(Seal)	

•	Fredrick F. van Goor	
•	Date:	
•		
State of California		
County of		
On	before me,(insert name and title of the officer)	
evidence to be the person(s) whose acknowledged to me that he/she/th	an Goor, who proved to me on the basis of satisfactory e name(s) is/are subscribed to the within instrument and ney executed the same in his/her/their authorized capacity(ies) on the instrument the person(s), or the entity upon behalf d the instrument.	
I certify under PENALTY OF PEI foregoing paragraph is true and co	RJURY under the laws of the State of California that the rrect.	
WITNESS my hand and official so	eal.	
Signature	(Seal)	

	Martyn C. Botfield
	Date:
Commonwealth of Massachusetts County of	
public, personally appeared Martyn C. E identification which was/were: person please identify)	, 2010, before me, the undersigned notary Botfield, proved to me through satisfactory evidence of nal knowledge of identity, a driver's license, other to be the person whose name is signed armed to me that the contents of the document are truthfuledge and belief.
Notary Public My Commission Expires:	

	Gregor Zlo	okarnik	
	Date:		
•			
State of California	·		
County of			
On	before me,	art name and title of the off	
personally appeared Gregor Zlok be the person(s) whose name(s) i me that he/she/they executed the his/her/their signature(s) on the in person(s) acted, executed the inst	is/are subscribed to the same in his/her/their an instrument the person(s)	within instrument uthorized capacity	t and acknowledged to y(ies), and that by
I certify under PENALTY OF PE foregoing paragraph is true and c		s of the State of C	California that the
WITNESS my hand and official	seal.		
Signature	·	_(Seal)	

ACKNOWLEDGMENT OF ASSIGNEE

By: Sop loved
Stephen Nesbitt
Chief Patent Counsel
VERTEX PHARMACEUTICALS INCORPORATED
Date: July 16, 2010
Commonwealth of Massachusetts
County of Middlesex
On this it day of day of , 2010, before me, the undersigned notary public, personally appeared Stephen Nesbitt (name of document signer), proved to me through satisfactory evidence of identification which was/were: personal knowledge of identity,
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'. Lisa M. Romano Lisa M. F. DMANO Notary Public'. Lisa M. Romano Commonwell Medicines
My Commission Expires: 5-13-2016. My Commission Expires May 13, 2016

ASSIGNMENT

We,

- (1) Xiaoqing Yang, of 4526 Vereda Mar de Ponderosa, San Diego, CA 92130;
- (2) Sara S. Hadida Ruah, of 2356 Torrey Pines Road, #16, La Jolla, CA 92037;
- (3) Peter D.J. Grootenhuis, of 4801 Riding Ridge Road, San Diego, CA 92130;
- (4) Fredrick F. van Goor, of 832 Ormond Court, San Diego, CA 92109;
- (5) Martyn C. Botfield, of 47 Walden Terrace, Concord, MA 01742; and
- (6) Gregor Zlokarnik, of 2754 Palomino Circle, La Jolla, CA 92037; 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 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:
- (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:
- (a) the International Patent Application entitled: MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, filed under the Patent Cooperation Treaty in the United States Receiving Office on March 19, 2010, under Application No. PCT/US2010/028062, 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

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and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/162,130	US	March 20, 2009
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.

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	Xiaoqing Yang	
	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	· .	
IN WITNESS WHEREOF, I have hereunto	set hand and seal	
Signature of witness: (2)		
Printed Name of Witness:		
this day of Date of signing		

•					
,	Sara S. I	-ladida F	Ruah		
	Date:				·
State of California				•	
County of)				
On befor	e me,		and title of the officer)		
personally appeared Sara S. Hadida Rual evidence to be the person(s) whose name acknowledged to me that he/she/they exeand that by his/her/their signature(s) on twhich the person(s) acted, executed the i	n, who prove (s) is/are subscuted the san he instrumen	d to me oscribed me in hi	on the basis of to the within in s/her/their autho	satisfactory istrument an orized capac	d city(ies),
I certify under PENALTY OF PERJURY foregoing paragraph is true and correct.	under the la	aws of tl	ne State of Cali	fornia that tl	ne
WITNESS my hand and official seal.		•	•		
Signature	· · · · · · · · · · · · · · · · · · ·	(Sea	1)		

Office
Peter D.J. Grootenhuis
Date: 3/19/2010

County of _	Sa u	Dier	ی)

State of California

On March 19, 2010 before me, Weichuan Chen
(insert name and title of the officer)

personally appeared Peter D.J. Grootenhuis, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature When Change (Seal)

WEICHUAN CHEN
COMM. # 1774377
NOTARY PUBLIC-CALIFORNIA
SAN DIEGO COUNTY
MY COMM. EXP. OCT. 20, 2011

	Fredrick F. van Goor
	Date:
State of California	·
County of	
evidence to be the person(s) whose name(s) acknowledged to me that he/she/they execut and that by his/her/their signature(s) on the which the person(s) acted, executed the instruction	who proved to me on the basis of satisfactory is/are subscribed to the within instrument and ted the same in his/her/their authorized capacity(ies), instrument the person(s), or the entity upon behalf of
WITNESS my hand and official seal.	
Signature	(Seal)

		Martyn C. Botfield
		Date:
	alth of Massachusetts	
_		·
On this	day of	, 2010, before me, the undersigned notary
• • •		C. Botfield, proved to me through satisfactory evidence of
		personal knowledge of identity, a driver's license, other
(please ident	ify)	, to be the person whose name is signed
		or affirmed to me that the contents of the document are truthful
and accurate	to the best of his/her k	nowledge and belief.
Notary Publi		
•	cion Evnires:	

	•
	Gregor Zlokarnik
	Date:
State of California	•
County of	
Onbefore m	1e,
personally appeared Gregor Zlokarnik, who be the person(s) whose name(s) is/are subsc me that he/she/they executed the same in his	proved to me on the basis of satisfactory evidence to cribed to the within instrument and acknowledged to s/her/their authorized capacity(ies), and that by the person(s), or the entity upon behalf of which the
I certify under PENALTY OF PERJURY us foregoing paragraph is true and correct.	nder the laws of the State of California that the
WITNESS my hand and official seal.	
Signature	(Seal)

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