

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
COREY ANDERSON	12/11/2014
BEILI ZHANG	12/11/2014
BENJAMIN JOSEPH LITTLER	12/11/2014
ALI KESHAVARZ-SHOKRI	12/17/2014
TIM EDWARD ALCACIO	12/18/2014
SARA SABINA HADIDA RUAH	12/17/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VERTEX PHARMACEUTICALS (SAN DIEGO) LLC.
<b>Street Address:</b>	11010 TORREYANA ROAD
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16998426
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(734)489-8002
<i>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.</i>	
<b>Phone:</b>	734-489-8007
<b>Email:</b>	Docket-RA@btlaw.com, diane.schmidt@btlaw.com
<b>Correspondent Name:</b>	BARNES & THORNBURG LLP - JOSHUA E. NEY
<b>Address Line 1:</b>	24 FRANK LLOYD WRIGHT DRIVE
<b>Address Line 2:</b>	SUITE A-3300
<b>Address Line 4:</b>	ANN ARBOR, MICHIGAN 48105
<b>ATTORNEY DOCKET NUMBER:</b>	67573-324055
<b>NAME OF SUBMITTER:</b>	DIANE M. SCHMIDT
<b>SIGNATURE:</b>	/Diane M. Schmidt/
<b>DATE SIGNED:</b>	08/21/2020

**Total Attachments: 10**

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## ASSIGNMENT

We,

- (1) Corey Anderson, of San Diego, California;
- (2) Sara Sabina Hadida-Ruah, of La Jolla, California;
- (3) Beili Zhang, of San Diego, California;
- (4) Benjamin Joseph Littler, of Carlsbad, California;
- (5) Ali Keshavarz-Shokri, of San Diego, California, and
- (6) Tim Edward Alcacio, of San Diego, California;

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 (San Diego) LLC and do hereby assign, sell and transfer to, Vertex Pharmaceuticals (San Diego) LLC, a corporation organized and existing under the laws of the State of Delaware and having an office and a place of business at 11010 Torreyana Road, San Diego, California 92121, 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: PRODRUGS OF PYRIDONE AMIDES USEFUL AS MODULATORS OF SODIUM CHANNELS, and filed in the United States Patent and Trademark Office on December 12, 2014, under Application Number 14/568,391<sup>1</sup>, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: PRODRUGS OF PYRIDONE AMIDES USEFUL AS MODULATORS OF SODIUM CHANNELS, filed under the Patent Cooperation Treaty in the United States Receiving Office on December 12, 2014, under Application No. PCT/US14/69916<sup>2</sup> and designating all countries, including any renewals,

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

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

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):

<u>61/915,937</u>	<u>United States of America</u>	<u>December 13, 2013</u>
Application No.	Country	Filing Date

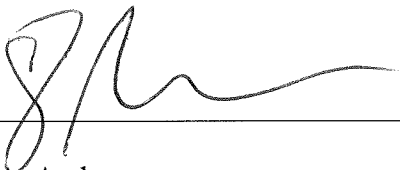
and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

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) Corey Anderson

Date: Dec 11, 2014

State of California  
County of San Diego

On December 11, 2014 before me, Lauren M. DeVincenzo, Notary Public  
(insert name and title of the officer)

personally appeared Corey Anderson, 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 Lauren M. DeVincenzo (Seal)



*S. Hadida*

(2) Sara Sabina Hadida-Ruah

Date: 12/17/2014

State of California  
County of San Diego

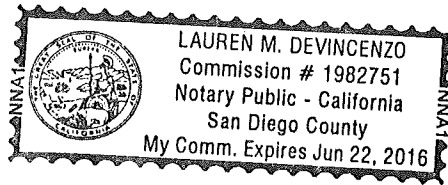
On December 17, 2014 before me, Lauren M. DeVincenzo, Notary Public  
(insert name and title of the officer)

personally appeared Sara Sabina 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.

Signature *Lauren M. DeVincenzo* (Seal)



Beili Zhang

(3) Beili Zhang

Date: December 11th, 2014

State of California  
County of San Diego

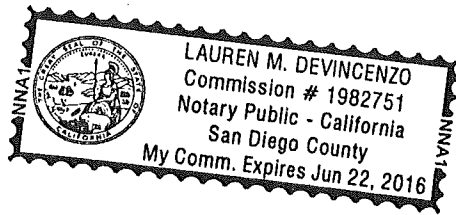
On December 11, 2014 before me, Lauren M. DeVincenzo, Notary Public  
(insert name and title of the officer)

personally appeared Beili Zhang, 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 Lauren M DeVincenzo (Seal)





Benjamin Joseph Littler

(4) Benjamin Joseph Littler

Date: 11 DEC 2014

State of California  
County of San Diego

On December 11, 2014 before me, Lauren M. DeVincenzo, Notary Public  
(insert name and title of the officer)

personally appeared Benjamin Joseph Littler, 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 Lauren M DeVincenzo (Seal)



Ali Keshavarz-Shokri

(5) Ali Keshavarz-Shokri

Date: 17 December 2014

State of California  
County of San Diego

On December 17, 2014 before me, Lauren M. DeVincenzo, Notary Public  
(insert name and title of the officer)

personally appeared Ali Keshavarz-Shokri, 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 Lauren M DeVincenzo (Seal)



*Tim E. Alcacio*

(6) Tim Edward Alcacio

Date: 18 Dec 2014

State of California  
County of San Diego

On December 18, 2014 before me, Lauren M. DeVincenzo, Notary Public  
(insert name and title of the officer)

personally appeared Tim Edward Alcacio, 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 *Lauren M. DeVincenzo* (Seal)



ACKNOWLEDGMENT OF ASSIGNEE

By: Kerry A Flynn  
Kerry A. Flynn  
Vice President and Chief IP Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: Jan. 8, 2014

Commonwealth of Massachusetts  
County of ~~Middlesex~~ Suffolk (CMA)

On this 8th day of January, 2014<sup>2015 (CMA)</sup>, 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.

Carolyn Anderson  
Notary Public  
My Commission Expires: NOV. 11, 2016

