

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4030414

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YEEMAN K. RAMTOHUL	01/22/2014
SANJOY KUMAR DAS	01/06/2014
CAROLINE CADILHAC	01/06/2014
THUMKUNTA JAGADEESWAR REDDY	01/06/2014
LOUIS VAILLANCOURT	01/06/2014
MICHEL GALLANT	01/06/2014
BINGCAN LIU	01/06/2014
EVELYNE DIETRICH	01/06/2014
FREDERIC VALLEE	01/06/2014
JULIEN MARTEL	01/06/2014
CARL POISSON	12/18/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VERTEX PHARMACEUTICALS (CANADA) INCORPORATED
<b>Street Address:</b>	275 ARMAND-FRAPPIER BLVD.
<b>Internal Address:</b>	LAVAL
<b>City:</b>	QUEBEC
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	H7V 4A7
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15140045
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)720-9601
<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>	(617) 720-9600
<b>Email:</b>	bwptopat@bannerwitcoff.com, dfreitas@bannerwitcoff.com
<b>Correspondent Name:</b>	BANNER & WITCOFF, LTD.
<b>Address Line 1:</b>	28 STATE STREET
<b>Address Line 2:</b>	SUITE 1800

PATENT

<b>Address Line 4:</b> BOSTON, MASSACHUSETTS 02109	
<b>ATTORNEY DOCKET NUMBER:</b>	007534.00077\US
<b>NAME OF SUBMITTER:</b>	JOHN P. IWANICKI
<b>SIGNATURE:</b>	/John P. Iwanicki/
<b>DATE SIGNED:</b>	08/30/2016
<b>Total Attachments: 15</b> source=Assignment_InventorsToCanada#page1.tif source=Assignment_InventorsToCanada#page2.tif source=Assignment_InventorsToCanada#page3.tif source=Assignment_InventorsToCanada#page4.tif source=Assignment_InventorsToCanada#page5.tif source=Assignment_InventorsToCanada#page6.tif source=Assignment_InventorsToCanada#page7.tif source=Assignment_InventorsToCanada#page8.tif source=Assignment_InventorsToCanada#page9.tif source=Assignment_InventorsToCanada#page10.tif source=Assignment_InventorsToCanada#page11.tif source=Assignment_InventorsToCanada#page12.tif source=Assignment_InventorsToCanada#page13.tif source=Assignment_InventorsToCanada#page14.tif source=Assignment_InventorsToCanada#page15.tif	

## ASSIGNMENT

We,

- (1) Yeeman K. Ramtohl, of Pierrefonds, Quebec, Canada;
- (2) Sanjoy Kumar Das, of Pierrefonds, Quebec, Canada;
- (3) Caroline Cadilhac, of Montreal, Quebec, Canada;
- (4) Thumkunta Jagadeeswar Reddy, of Pierrefonds, Quebec, Canada;
- (5) Louis Vaillancourt, of Mascouche, Quebec, Canada;
- (6) Michel Gallant, of Pierrefonds, Quebec, Canada;
- (7) Bingcan Liu, of Montreal, Quebec, Canada;
- (8) Evelyn Dietrich, of Laval, Quebec, Canada;
- (9) Frederic Vallee, of Montreal, Quebec, Canada;
- (10) Julien Martel, of Montreal, Quebec, Canada; and
- (11) Carl Poisson, of Montreal, Quebec, Canada,

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 (Canada) Incorporated, and do hereby assign, sell and transfer to, Vertex Pharmaceuticals (Canada) Incorporated, a company registered in British Columbia, Canada and having an office and a place of business at 275 Armand-Frappier Blvd., Laval (Quebec) H7V 4A7 Canada, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

(1) the entire right, title and interest 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: MANNOSE DERIVATIVES FOR TREATING BACTERIAL INFECTIONS , and filed in the United States Patent and Trademark Office on December 18, 2013 under Application Number 14/132,662, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: MANNOSE DERIVATIVES FOR TREATING BACTERIAL INFECTIONS, filed under the Patent Cooperation Treaty in the United States Receiving Office on December 18, 2013 under Application No. PCT/US2013/76086, 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 any country throughout the world;

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in any country throughout 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):

61/738,620	US	December 18, 2012
Application No.	Country	Filing Date
61/788,241	US	March 15, 2013
Application No.	Country	Filing Date
61/874,501	US	September 6, 2013
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 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) Yeeman K. Ramtohl

Date: January 22, 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

this 22 day of January 2014  
Date of signing

Signature of witness: (2) \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_


this 22 day of January 2014  
Date of signing

Sanjoy Kumar Das

(2) Sanjoy Kumar Das

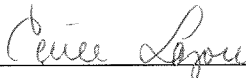
Date: January 6, 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

Printed Name of Witness: SYLVIE OUELLET

this 6<sup>th</sup> day of January 2014  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: CECILE LAJOIE

this 6<sup>th</sup> day of January 2014  
Date of signing

Cadilhac

(3) Caroline Cadilhac


Date: January 6, 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

Printed Name of Witness: NICOLAS CADILHAC

this 6 day of January 2014.  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: SYLVIE DUBUC

this 6<sup>th</sup> day of January 2014.  
Date of signing





(4) Thumkunta Jagadeeswar Reddy

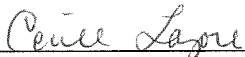
Date: Jan 06, 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

Printed Name of Witness: SYLVIE OUELLET

this 6<sup>th</sup> day of January 2014  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: CECILE LAJOIE


this 6<sup>th</sup> day of January 2014  
Date of signing



(5) Louis Vaillancourt

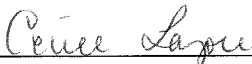
Date: 1/6/2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

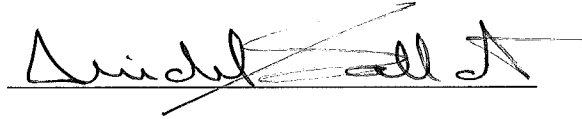
Printed Name of Witness: SYLVIE OUELLET

this 6<sup>th</sup> day of January 2014.  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: CECILE LAJOIE

this 6<sup>th</sup> day of January 2014.  
Date of signing



(6) Michel Gallant

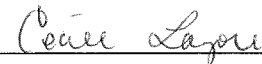
Date: Jan 6, 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

Printed Name of Witness: SYLVIE OUELLET

this 6<sup>th</sup> day of January 2014  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: CECILE LAJOIE

this 6<sup>th</sup> day of January 2014.  
Date of signing

Bingcan Liu

(7) Bingcan Liu

Date: Jan. 06. 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) Sylvie Ouellet

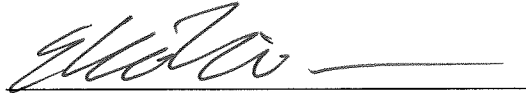
Printed Name of Witness: SYLVIE OUELLET

this 6<sup>th</sup> day of January 2014  
Date of signing

Signature of witness: (2) Cecile Lajoie

Printed Name of Witness: CECILE LAJOIE

this 6<sup>th</sup> day of January 2014.  
Date of signing



(8) Evelyn Dietrich

Date: January 6<sup>th</sup> 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

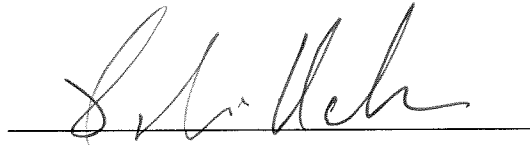
Printed Name of Witness: SYLVIE OUELLET

this 6<sup>th</sup> day of January 2014.  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: CECILE LAJOIE

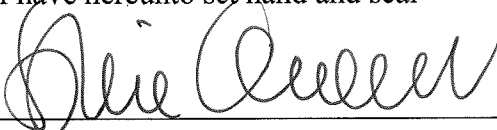
this 6<sup>th</sup> day of January 2014.  
Date of signing



(9) Frederic Vallee

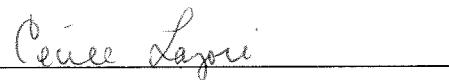
Date: 2014-01-06

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) 

Printed Name of Witness: SYLVIE OUELLET

this 6th day of January 2014  
Date of signing

Signature of witness: (2) 

Printed Name of Witness: CECILE LAJOIE

this 6th day of January 2014  
Date of signing

Julien Martel

(10) Julien Martel

Date: January 6<sup>th</sup> 2014

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1)

Sylvie Ouellet

Printed Name of Witness:

SYLVIE OUELLET

this

6<sup>th</sup>

day of

January 2014

Date of signing

Signature of witness: (2)

Cécile Lajoie

Printed Name of Witness:

CÉCILE LAJOIE

this

6<sup>th</sup>

day of

January 2014.

Date of signing

Carl Poisson

(11) Carl Poisson

Date: December 18, 2013

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: (1) Janek Szytkowski

Printed Name of Witness: JANEK SZYTKOWSKI

this 18 day of DECEMBER 2013.  
Date of signing


Signature of witness: (2) Guy Falardeau

Printed Name of Witness: Guy Falardeau

this 19 day of december 2013.  
Date of signing




ACKNOWLEDGMENT OF ASSIGNEE

By:   
Stephen L. Nesbitt  
Vice President and Chief IP Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: January 25<sup>th</sup>, 2014

Commonwealth of Massachusetts  
County of Middlesex

On this 25<sup>th</sup> day of January, 2014, before me, the undersigned notary public, personally appeared Stephen L. Nesbitt (name of document signer), proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public  
My Commission Expires: 3/16/2018.

