

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Young Chun Jung	05/06/2013
RECEIVING PARTY DATA	
Name:	Vertex Pharmaceuticals Inc.
Street Address:	130 Waverly Street
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02139
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13845415
CORRESPONDENCE DATA	
Fax Number:	9497609502
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	858 707 4000
Email:	efiling@knobbe.com
Correspondent Name:	Knobbe, Martens, Olson & Bear LLP
Address Line 1:	2040 Main Street
Address Line 2:	14th Floor
Address Line 4:	Irvine, CALIFORNIA 92614
ATTORNEY DOCKET NUMBER:	ALIOS.057A2
NAME OF SUBMITTER:	Kimberly J. Miller
Signature:	/Kimberly J. Miller/
Date:	05/07/2013
This document serves as an Oath/Declaration (37 CFR 1.63).	

OP \$40.00 13845415

Total Attachments: 4

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**PATENT**

**REEL: 030367 FRAME: 0667**

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))***Application Data Sheet filed previously or concurrently*

Docket No.: ALIOS.057A2

Page 1 of 1

Title: METHODS OF PREPARING SUBSTITUTED NUCLEOTIDE ANALOGS

Inventors: Vladimir Serebryany, Jyanwei Liu, Leonid Beigelman, Young Chun Jung

**Declaration**

This Declaration is directed to the application identified above that:

Was filed **March 18, 2013** as U.S. or International Application No. **13/845,415** and incorporating any amendments made thereto prior to the signature date of this Declaration.

As a named inventor, I declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

**Assignment from Inventors**

WHEREAS, **Young Chun Jung** (individual hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental designs, or discoveries, and hereby assign or are under an obligation to assign to the below identified Assignee the above-titled application (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application").

AND WHEREAS, **Vertex Pharmaceuticals Inc.**, with its principal place of business at 130 Waverly Street, Cambridge, Massachusetts, 02139 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work held by ASSIGNOR.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, ASSIGNOR'S entire right, title, and interest throughout the world in the Application and the Work, including all patent properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all provisional applications relating thereto (including but not limited to U.S. Provisional Application Nos. **61/734,564**, filed **December 7, 2012** and **61/613,758**, filed **March 21, 2012** (respectively if plural applications));

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and

all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned patent properties, and authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on

**PATENT****REEL: 030367 FRAME: 0668**

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Title: METHODS OF PREPARING SUBSTITUTED NUCLEOTIDE ANALOGS

Inventors: Vladimir Serebryany, Jyanwei Liu, Leonid Belgelman, Young Chun Jung

applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

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**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

*Application Data Sheet filed previously or concurrently*

Docket No.: ALIOS.057A2

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Title: METHODS OF PREPARING SUBSTITUTED NUCLEOTIDE ANALOGS

Inventors: Vladimir Serebryany, Jyanwei Liu, Leonid Beigelman, Young Chun Jung

**Legal Name of inventor:** Young Chun Jung

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6<sup>th</sup> day of May, 2013.

Signature: \_\_\_\_\_



Date: May 6, 2013

**Signature before a Notary is desirable but not required.** When signed in presence of a Notary, please attach the appropriate notarial documentation.

15051078  
031813

State of Massachusetts

County Middlesex

On this 6<sup>th</sup> day of May, 2013, before me personally appeared Young Chan Jung,  
to me known to be the person described in and who executed the foregoing instrument, and acknowledged  
that they executed the same as their free act and deed.

Frances M. Cunningham  
Notary Public

Print Name: Frances M. Cunningham

My Commission expires:

March 16, 2018

