

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3193855

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DEQIANG NIU	08/01/2013
RUSSELL C. PETTER	08/05/2013
LIXIN QIAO	08/01/2013
JUSWINDER SINGH	08/01/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CELGENE AVILOMICS RESEARCH, INC.
<b>Street Address:</b>	45 WIGGINS AVENUE
<b>City:</b>	BEDFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01730
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14010892
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)502-5002
<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>	617-248-5000
<b>Email:</b>	patentdocket@choate.com
<b>Correspondent Name:</b>	CHOATE HALL & STEWART LLP
<b>Address Line 1:</b>	TWO INTERNATIONAL PLACE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	2007878-0355
<b>NAME OF SUBMITTER:</b>	JOHN P. REARICK, PHD, JD
<b>SIGNATURE:</b>	/John P. Rearick/
<b>DATE SIGNED:</b>	01/22/2015
<b>Total Attachments: 8</b>	
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**COMBINED JOINT ASSIGNMENT & DECLARATION**

**A. ASSIGNMENT**

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

<b>Inventor Name</b>	<b>City, State</b>
<b>1. Deqiang Niu</b>	Lexington, MA
<b>2. Russell C. Petter</b>	Stow, MA
<b>3. Lixin Qiao</b>	Tewksbury, MA
<b>4. Juswinder Singh</b>	Ashland, MA

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

**HCV PROTEASE INHIBITORS AND USES THEREOF; and**

- prepared for filing in the United States Patent and Trademark Office; or
  - identified by United States Application Serial No. **Serial No.** filed in the United States Patent and Trademark Office on **Filing Date**; and
  - identified by International Patent Application No. **Serial No.** filed on **Filing Date**;
- and

- is also aware of the following priority applications:

**Serial No.: 13/443,847; Filed: April 10, 2012**  
**Serial No.: 12/541,347; Filed: August 14, 2009**  
**Serial No.: 61/089,269; Filed: August 15, 2008**  
**Serial No.: 61/098,662; Filed: September 19, 2008**

WHEREAS **Celgene Avilomics Research, Inc.** (hereinafter "ASSIGNEE"), having a usual place of business at **45 Wiggins Ave., Bedford, MA 01730**, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above; and hereby

confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, I covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.



**B. DECLARATION (37 CFR 1.63)**

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

**HCV PROTEASE INHIBITORS AND USES THEREOF; and**

attached hereto or prepared for filing in the United States Patent and Trademark Office; or

identified by United States Application Serial No. **Serial No.** filed in the United States Patent and Trademark Office on **Filing Date**; or

identified by International Patent Application No. **Serial No.** filed on **Filing Date**.

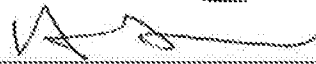
The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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

I have reviewed and understand the contents of the application, including the claims and am aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

SIGNED this 1<sup>st</sup> day of August, 2013.

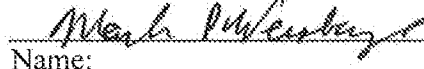


Name: Deqiang Niu

STATE OF MASSACHUSETTS SS.  
COUNTY OF MIDDLESEX

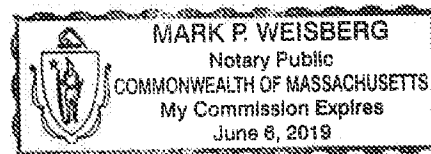
Before me this 1<sup>st</sup> day of AUGUST, 2013, personally appeared Deqiang Niu, and proved to me through satisfactory evidence of identity which was MA DRIVERS LICENSE to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC



Name: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_




SIGNED this 5<sup>th</sup> day of August, 2013.

  
Name: Russell C. Petter

STATE OF Massachusetts SS.  
COUNTY OF Middlesex

Before me this 5<sup>th</sup> day of August, 2013, personally appeared **Russell C. Petter**, and proved to me through satisfactory evidence of identity which was driver's license to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC  
  
Name: Rebecca Lynn Peterson  
My Commission Expires: 09/01/2017

 **REBECCA LYNN PETERSON**  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
September 1, 2017



SIGNED this 1<sup>ST</sup> day of AUGUST, 2013.



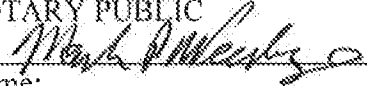
Name: Lixin Qiao

STATE OF MASSACHUSETTS SS.

COUNTY OF MIDDLESEX

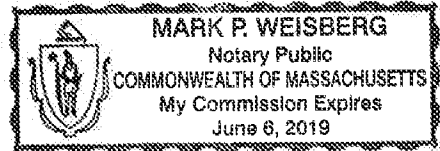
Before me this 1<sup>ST</sup> day of AUGUST, 2013, personally appeared Lixin Qiao, and proved to me through satisfactory evidence of identity which was MA DRIVERS LICENSE to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

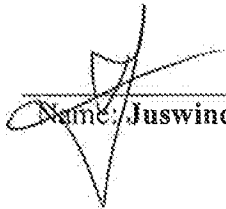


Name: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_



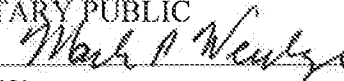
SIGNED this 1<sup>st</sup> day of AUGUST, 2013.

  
Name: Juswinder Singh

STATE OF MASSACHUSETTS SS.  
COUNTY OF MIDDLESEX

Before me this 1<sup>st</sup> day of AUGUST, 2013, personally appeared Juswinder Singh, and proved to me through satisfactory evidence of identity which was MA DRIVERS LICENSE to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

  
Name: \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

