

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2607895

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>YONGBO HU</td> <td>04/09/2013</td> </tr> <tr> <td>ZHIGEN HU</td> <td>06/11/2013</td> </tr> <tr> <td>HONG MYUNG LEE</td> <td>04/10/2013</td> </tr> <tr> <td>ZHAN SHI</td> <td>04/09/2013</td> </tr> <tr> <td>STEPAN VYSKOCIL</td> <td>04/26/2013</td> </tr> <tr> <td>TIANLIN XU</td> <td>04/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	YONGBO HU	04/09/2013	ZHIGEN HU	06/11/2013	HONG MYUNG LEE	04/10/2013	ZHAN SHI	04/09/2013	STEPAN VYSKOCIL	04/26/2013	TIANLIN XU	04/09/2013
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>MILLENNIUM PHARMACEUTICALS, INC.</td> </tr> <tr> <td>Street Address:</td> <td>40 LANDSDOWNE STREET</td> </tr> <tr> <td>City:</td> <td>CAMBRIDGE</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139				
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<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13814812</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13814812										
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Application Number:	13814812														
CORRESPONDENCE DATA															
<p>Fax Number: (617)502-5002</p> <p>Email: patentdocket@choate.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: CHOATE, HALL, AND STEWART LLP</p> <p>Address Line 1: TWO INTERNATIONAL PLACE</p> <p>Address Line 4: BOSTON, MASSACHUSETTS 02110</p>															
ATTORNEY DOCKET NUMBER:	2003886-0621														
NAME OF SUBMITTER:	DANIEL A. KLEIN														

Signature:	/Daniel A. Klein/
Date:	11/08/2013
<p>Total Attachments: 8</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p> <p>source=Assignment#page3.tif</p> <p>source=Assignment#page4.tif</p> <p>source=Assignment#page5.tif</p> <p>source=Assignment#page6.tif</p> <p>source=Assignment#page7.tif</p> <p>source=Assignment#page8.tif</p>	

**JOINT 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. Yongbo Hu</b>	Winchester, MA
<b>2. Zhigen Hu</b>	Newton Center, MA
<b>3. Hong Myung Lee</b>	Cambridge, MA
<b>4. Zhan Shi</b>	Concord, MA
<b>5. Stepan Vyskocil</b>	Arlington, MA
<b>6. Tianlin Xu</b>	Shrewsbury, 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:

**HETEROARYLS AND USES THEREOF; and**

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

☒ identified by United States Application Serial No. **13/814,812** filed in the United States Patent and Trademark Office on **February 7, 2013**; and

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

☒ is also aware of the following priority applications:

**Serial No.: PCT/US11/47241; Filed: August 10, 2011**

**Serial No.: U.S.S.N. 61/372,579; Filed: August 11, 2010**

WHEREAS **Millennium Pharmaceuticals, Inc.** (hereinafter "ASSIGNEE"), having a usual place of business at **40 Landsdowne Street, Cambridge, MA 02139**, 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.

Yongbo Hu  
Name: Yongbo Hu

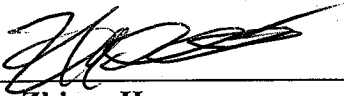
04/09/2013  
Date

Witness Signature: Jianping Guo  
Name (please print): JIANPING GUO


4/9/2013  
Date

Witness Signature: Alexandra E. Gould  
Name (please print): Alexandra E. Gould

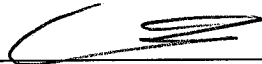
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Name: **Zhigen Hu**

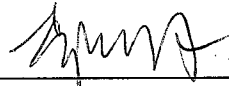
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Date

Witness Signature:   
Brian Freeze  
Name (please print):


04/11/2013  
Date

Witness Signature:   
Name (please print):


04/11/2013  
Date

  
Name: **Hong Myung Lee**


4-10-2013  
Date

Witness Signature:   
Sharmila Adhikari  
Name (please print):


4-10-2013  
Date

Witness Signature:   
JANICE CHIN  
Name (please print):

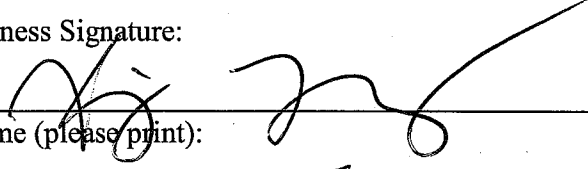
04-10-2013  
Date

  
Name: **Zhan Shi**

April 9th, 2013  
Date

Witness Signature:  
  
Name (please print): **CHRISTELLE RENO**

April 9th 2013  
Date

Witness Signature:  
  
Name (please print): **Xueliang Fang**

April 8th 2013  
Date





Name: **Stepan Vyskocil**

04/26/13

Date

Witness Signature:



Sean J Harrison  
Name (please print):

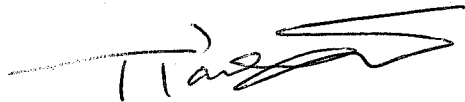
April 26, 2013  
Date

Witness Signature:



Kenneth Gistad  
Name (please print):

April 26, 2013  
Date



Name: **Tianlin Xu**

4/9/2013  
Date

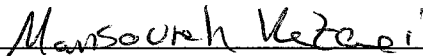
Witness Signature:



Name (please print): Jianping Guo

4/9/2013  
Date

Witness Signature:



Name (please print): Mansourh Vaziri

4/9/2013  
Date

