

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Brian T. Hopkins</td> <td>12/06/2011</td> </tr> <tr> <td>Daniel Scott</td> <td>12/06/2011</td> </tr> <tr> <td>Patrick Conlon</td> <td>11/23/2011</td> </tr> <tr> <td>Tracy J. Jenkins</td> <td>12/06/2011</td> </tr> <tr> <td>Noel Powell</td> <td>11/14/2011</td> </tr> <tr> <td>Bing Guan</td> <td>11/15/2011</td> </tr> <tr> <td>Julio H. Cuervo</td> <td>11/26/2011</td> </tr> <tr> <td>Deping Wang</td> <td>11/21/2011</td> </tr> <tr> <td>Art Taveras</td> <td>11/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	Brian T. Hopkins	12/06/2011	Daniel Scott	12/06/2011	Patrick Conlon	11/23/2011	Tracy J. Jenkins	12/06/2011	Noel Powell	11/14/2011	Bing Guan	11/15/2011	Julio H. Cuervo	11/26/2011	Deping Wang	11/21/2011	Art Taveras	11/15/2011
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Deping Wang	11/21/2011																				
Art Taveras	11/15/2011																				
RECEIVING PARTY DATA																					
Name:	BIOGEN IDEC MA INC.																				
Street Address:	133 Boston Post Road																				
City:	Weston																				
State/Country:	MASSACHUSETTS																				
Postal Code:	02493																				
PROPERTY NUMBERS Total: 1																					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US1158472</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US1158472																
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PCT Number:	US1158472																				
CORRESPONDENCE DATA																					
Fax Number:	(617)502-5002																				
Phone:	617-248-5000																				
Email:	kwells@choate.com																				
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																					
Correspondent Name:	Choate Hall & Stewart LLP																				
Address Line 1:	Two International Place																				
Address Line 4:	Boston, MASSACHUSETTS 02110																				

OP \$40.00 US1158472

ATTORNEY DOCKET NUMBER:	2009253-0071
NAME OF SUBMITTER:	John P. Rearick, PhD
Total Attachments: 12 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif source=Assignment#page11.tif source=Assignment#page12.tif	

JOINT ASSIGNMENT

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

Inventor Name	City, State
1. Brian T. Hopkins	Newton, MA
2. Daniel Scott	Weston, MA
3. Patrick Conlon	Wakefield, MA
4. Tracy J. Jenkins	Belmont, MA
5. Noel Powell	Westford, MA
6. Bing Guan	Needham, MA
7. Julio H. Cuervo	Arlington, MA
8. Deping Wang	Sharon, MA
9. Art Taveras	Southborough, 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 applications entitled:

HETEROCYCLIC TYROSINE KINASE INHIBITORS; and

- prepared for filing in the United States Patent and Trademark Office; or
- identified by United States Application Serial No. _____ filed in the United States Patent and Trademark Office on _____; and
- identified by International Patent Application No.. **PCT/US11/58472** filed on **October 28, 2011**; and
- and am also aware of the following priority applications:

Serial No.: 61/408338; Filed: October 29, 2010

WHEREAS **BIOGEN IDEC MA INC.** (hereinafter "ASSIGNEE"), having a usual place of business at **133 Boston Post Road, Weston, MA 02493**, 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/or transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and/or 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, 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;

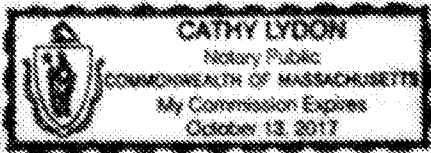
AND, I covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

SIGNED this 6th day of Dec, 2011.

Brian T. Hopkins
Name: Brian T. Hopkins

STATE OF Massachusetts SS.
COUNTY OF Middlesex

Before me this 6th day of December, 2011, personally appeared **Brian T. Hopkins**, and proved to me through satisfactory evidence of identity which was personally known 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.



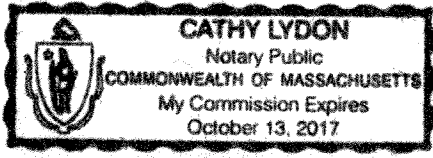
NOTARY PUBLIC C Lydon
Name: Cathy Lydon
My Commission Expires: 13 OCT 17

SIGNED this 6 day of December, 2011.

Daniel Scott
Name: **Daniel Scott**

STATE OF Massachusetts SS.
COUNTY OF Middlesex

Before me this 6th day of December, 2011, personally appeared **Daniel Scott**, and proved to me through satisfactory evidence of identity which was _____ 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 *C Lydon*
Name: Cathy Lydon
My Commission Expires: 13 Oct 17

SIGNED this 23 day of Nov, 2011.

Patrick R Conlon

Name: **Patrick Conlon**

STATE OF Massachusetts SS.

COUNTY OF Middlesex

Before me this 23 day of November, 2011, personally appeared **Patrick Conlon**, and proved to me through satisfactory evidence of identity which was 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.

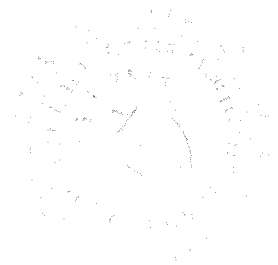
NOTARY PUBLIC

Caryn L. Crasnick-Maloney

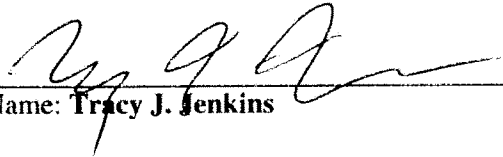
Name: Caryn Crasnick-Maloney

My Commission Expires: February 8, 2013

CARYN L. CRASNICK-MALONEY
NOTARY PUBLIC
Commonwealth of Massachusetts
My Commission Expires
February 8, 2013

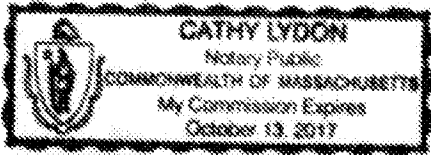


SIGNED this 6th day of December, 2011.


Name: Tracy J. Jenkins

STATE OF Massachusetts SS.
COUNTY OF Middlesex

Before me this 6th day of December, 2011, personally appeared Tracy J. Jenkins, and proved to me through satisfactory evidence of identity which was personally known 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 C Lydon
Name: Cathy Lydon
My Commission Expires: 13 OCT 17

SIGNED this 14 day of November, 2011.



Name: Noel Powell

STATE OF Massachusetts SS.

COUNTY OF Middlesex

Before me this 14th day of November, 2011, personally appeared **Noel Powell**, 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: Edith M. Estagrook

My Commission Expires: 5/13/2013




SIGNED this 15TH day of NOVEMBER, 20 11.

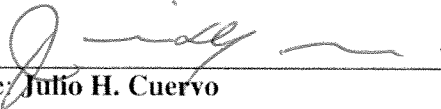

Name: **Bing Guan**

STATE OF MASSACHUSETTS
COUNTY OF MIDDLESEX SS.

Before me this 15TH day of NOVEMBER, 20 11, personally appeared **Bing Guan**, and proved to me through satisfactory evidence of identity which was MA 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: NICOLE IRIS EDWARDS
My Commission Expires: 29 SEP 2017

SIGNED this 26 day of Nov., 20 11.


Name: Julio H. Cuervo

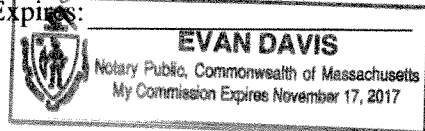
STATE OF MA SS.
COUNTY OF Middlesex

Before me this 26 day of Nov., 20 11, personally appeared **Julio H. Cuervo**, and proved to me through satisfactory evidence of identity which was MADR 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.

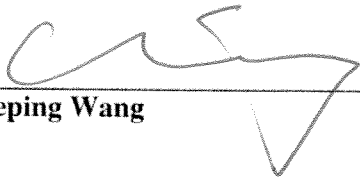
NOTARY PUBLIC

Name: 

My Commission Expires:



SIGNED this 21 day of Nov., 2011.



Name: **Deping Wang**

STATE OF _____ SS.

COUNTY OF _____

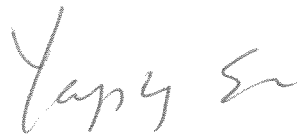
Before me this ____ day of _____, 20____, personally appeared **Deping Wang**, and proved to me through satisfactory evidence of identity which was _____ to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: _____

My Commission Expires: _____

Witnessed by: 
SHENG GU


Yaping Sun


SIGNED this 15th day of November, 20 11.


Name: Art Taveras

STATE OF MASSACHUSETTS
COUNTY OF MIDDLESEX SS.

Before me this 15th day of NOVEMBER, 20 11, personally appeared Art Taveras, and proved to me through satisfactory evidence of identity which was MA 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: NICOLE IRIS EDWARDS
My Commission Expires: 29 SEP 2017