

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3847706

| | |
|---|-----------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JERMAINE THOMAS | 05/10/2012 |
| XIAOGAO LIU | 06/05/2012 |
| EDWARD YIN-SHIANG LIN | 05/10/2012 |
| GUO ZHU ZHENG | 05/04/2012 |
| BIN MA | 05/10/2012 |
| RICHARD D. CALDWELL | 06/13/2012 |
| KEVIN M. GUCKIAN | 05/10/2012 |
| GNANASAMBANDAM KUMARAVEL | 05/10/2012 |
| ARTHUR G. TAVERAS | 05/10/2012 |
| RECEIVING PARTY DATA | |
| Name: | BIOGEN IDEC MA INC. |
| Street Address: | 14 CAMBRIDGE CENTER |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02142 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14874600 |
| CORRESPONDENCE DATA | |
| Fax Number: | (617)607-9200 |
| <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> | |
| Phone: | (617) 449-6532 |
| Email: | docket@mccarter.com |
| Correspondent Name: | MCCARTER & ENGLISH, LLP |
| Address Line 1: | 265 FRANKLIN STREET |
| Address Line 4: | BOSTON, MASSACHUSETTS 02110 |
| ATTORNEY DOCKET NUMBER: | 123429-01204 |
| NAME OF SUBMITTER: | XIN ZHANG |

| | |
|---|-------------|
| SIGNATURE: | /Xin Zhang/ |
| DATE SIGNED: | 04/27/2016 |
| Total Attachments: 10 source=Parent_Executed_Assignment#page1.tif source=Parent_Executed_Assignment#page2.tif source=Parent_Executed_Assignment#page3.tif source=Parent_Executed_Assignment#page4.tif source=Parent_Executed_Assignment#page5.tif source=Parent_Executed_Assignment#page6.tif source=Parent_Executed_Assignment#page7.tif source=Parent_Executed_Assignment#page8.tif source=Parent_Executed_Assignment#page9.tif source=Parent_Executed_Assignment#page10.tif | |

ASSIGNMENT

For valuable consideration, we, Jermaine THOMAS of Chelsea, MA; and Xiaogao LIU of Dover, MA; Edward Yin-Shiang LIN of Chestnut Hill, MA; Guo Zhu ZHENG of Lexington, MA; Bin MA of Arlington, MA; Richard D. CALDWELL of Woburn, MA; Kevin M. GUCKIAN of Northborough, MA; Gnanasambandam KUMARAVEL of Westford, MA; and Arthur G. TAVERAS of Southborough, MA; hereby assign to Biogen Idec MA Inc., a corporation of Massachusetts having a place of business at:

14 Cambridge Center
Cambridge, Massachusetts 02142;

and its successors and assigns (collectively hereinafter called "the Assignee"), our entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled BICYCLIC ARYL SPHINGOSINE 1-PHOSPHATE ANALOGS, filed March 30, 2012, and assigned U.S. Serial Number 13/389,054, this assignment including said application, any and all United States and foreign utility patents and patent applications, including continuation, continuation-in-part, divisional, reissue, and reexamination applications, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: 5/10/12

Jermaine THOMAS
Jermaine THOMAS

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

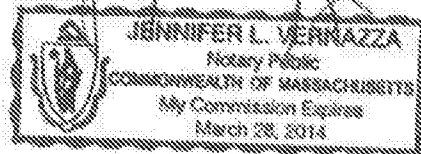
Before me this 10th day of May, 20 12, personally
appeared Jermaine THOMAS known to me to be the person whose name is subscribed to the
foregoing Assignment, proved to me through satisfactory evidence of identification in the form
of MATOS 70505786, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.

Jennifer Vernazza
Notary Public

My Commission Expires:

3/28/14

[Notary's Seal Here]



DATE: 6/5/2012

Xiaogao LIU
Xiaogao LIU

STATE OF MA)
COUNTY OF Norfolk) SS.

Before me this 5th day of June, 20 12, personally
appeared Xiaogao LIU known to me to be the person whose name is subscribed to the foregoing
Assignment, proved to me through satisfactory evidence of identification in the form of
MADL, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.

[Signature]
Notary Public

My Commission Expires:

[Notary's Seal Here]



YURY AFENREIM
Notary Public
Commonwealth of Massachusetts
My Commission Exp. Dec. 16, 2016

DATE: 5/10/12

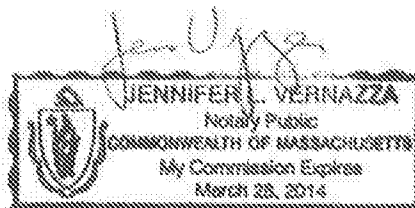
Y. Lin
Edward Yin-Shiang LIN

STATE OF Massachusetts
COUNTY OF Middlesex } SS.

Before me this 10th day of MAY, 20 12, personally
appeared Edward Yin-Shiang LIN known to me to be the person whose name is subscribed to the
foregoing Assignment, proved to me through satisfactory evidence of identification in the form
of MA ID# S55385838, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.

Jennifer Vernazza
Notary Public
My Commission Expires: 3/28/14

[Notary's Seal Here]



DATE:

05/04/2012

Guo Zhu ZHENG

STATE OF

Massachusetts

) SS.

COUNTY OF

Middlesex

Before me this 4th day of May, 20 12, personally
appeared Guo Zhu ZHENG known to me to be the person whose name is subscribed to the
foregoing Assignment, proved to me through satisfactory evidence of identification in the form
of his driver's license, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.

Michael D. Carli
Notary Public

My Commission Expires:

[Notary's Seal Here]



MICHAEL D. CARLI
Notary Public
Commonwealth of Massachusetts
My Commission Expires
September 24, 2015

DATE: 5/10/12

Bin MA

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

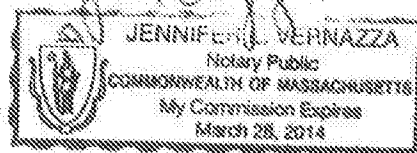
Before me this 10th day of May, 20 12, personally
appeared Bin MA known to me to be the person whose name is subscribed to the foregoing
Assignment, proved to me through satisfactory evidence of identification in the form of
MA ID# SS1010865, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.

Notary Public

My Commission Expires:

3/28/14

[Notary's Seal Here]




DATE: 6-13-2012

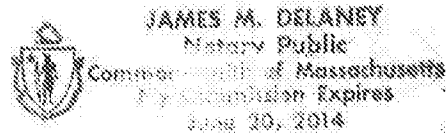

Richard D. CALDWELL

STATE OF MA)
COUNTY OF Middlesex) SS.

Before me this 13th day of June, 20 12, personally appeared Richard D. CALDWELL known to me to be the person whose name is subscribed to the foregoing Assignment, proved to me through satisfactory evidence of identification in the form of a Massachusetts driver's license and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public James M Delaney
My Commission Expires: June 20, 2014

[Notary's Seal Here]

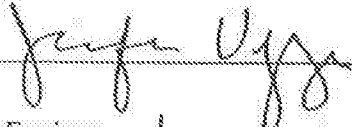


DATE: 5/10/12


Kevin M. GUCKIAN

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

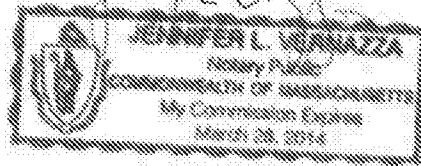
Before me this 10th day of May, 20 12, personally
appeared Kevin M. GUCKIAN known to me to be the person whose name is subscribed to the
foregoing Assignment, proved to me through satisfactory evidence of identification in the form
of MA ID# S 75771843, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.


Notary Public

My Commission Expires:

3/28/14

[Notary's Seal Here]



DATE: 5/10/12

G. Kumaravel
Gnanasambandam KUMARAVEL

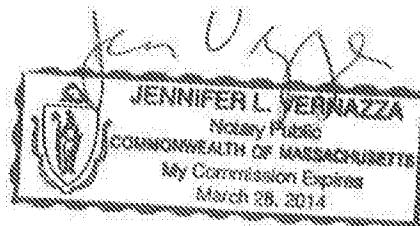
STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

Before me this 10th day of May, 20 12, personally
appeared Gnanasambandam KUMARAVEL known to me to be the person whose name is
subscribed to the foregoing Assignment, proved to me through satisfactory evidence of
identification in the form of MA ID # S24750643, and acknowledged that
he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public Jennifer L. Vernazza

My Commission Expires: 3/28/14

[Notary's Seal Here]

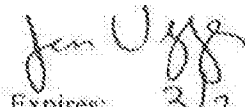


DATE: 5/10/12


Arthur G. TAVERAS

STATE OF Massachusetts)
COUNTY OF Middlesex) SS.

Before me this 10th day of May, 20 12, personally
appeared Arthur G. TAVERAS known to me to be the person whose name is subscribed to the
foregoing Assignment, proved to me through satisfactory evidence of identification in the form
of Massachusetts ID, and acknowledged that he/she executed the same as
his/her free act and deed for the purposes therein contained.

Notary Public 

My Commission Expires: 3/28/14

[Notary's Seal Here]

