504698032 12/20/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRIAN T. HOPKINS	09/13/2016
BIN MA	09/13/2016
TIMOTHY RAYMOND CHAN	09/27/2016
LIHONG SUN	09/26/2016
LEI ZHANG	09/13/2016
GNANASAMBANDAM KUMARAVEL	09/20/2016
JOSEPH P. LYSSIKATOS	09/20/2016
KEVIN KOCH	09/16/2016
HUA MIAO	09/21/2016

RECEIVING PARTY DATA

Name:	BIOGEN MA INC.
Street Address:	250 BINNEY STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15699857

CORRESPONDENCE DATA

Fax Number: (617)607-9200

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.

Phone: (617) 449-6532

Email: kkantorski@mccarter.com **Correspondent Name:** MCCARTER & ENGLISH, LLP

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ATTORNEY DOCKET NUMBER: 123429-03504 NAME OF SUBMITTER: XIN ZHANG

PATENT REEL: 044452 FRAME: 0212 504698032

SIGNATURE:	/Xin Zhang/		
DATE SIGNED:	12/20/2017		
	This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 13			
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PATENT REEL: 044452 FRAME: 0213

Attorney Docket No: 2009253-0100

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:

In	ventor Name	City, State
1.	Brian T. Hopkins	Newton, MA
2.	Bin Ma	Arlington, MA
3.	Timothy Raymond Chan	Sammamish, WA
4.	Libong Sun	Lexington, MA
5.	Lei Zhang	Westford, MA
6.	Gnanasambandam Kumaravel	Westford, MA
7,	Joseph P. Lyssikatos	Cambridge, MA
8.	Kevin Koch	Cambridge, MA
9.	Hua Miao	Newton, 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:

BIARYL COMPOUNDS USEFUL FOR THE TREATMENT OF HUMAN DISEASES IN ONCOLOGY, NEUROLOGY AND IMMUNOLOGY; and

		prepared for filing in the United States Patent and Trademark Office; or
States	[]] Patent a	identified by United States Application Serial No. Serial No. filed in the United and Trademark Office on Filing Date; and
Decen	⊠ iber 11	identified by International Patent Application No. PCT/US2014/069853 filed on 2014; and
	\boxtimes	is also aware of the following priority applications:
	Seria	l No.: 61/914.886; Filed: December 11, 2013

WHEREAS Biogen MA Inc. (hereinafter "ASSIGNEE"), having a usual place of business at 250 Binney Street, Cambridge, MA, 02142, 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, each of us has sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its

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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, including any right of priority thereto; 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. Our 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 each of us had this sale, assignment and transfer not been made;

AND, each of us hereby acknowledges that this Assignment, being of our 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, each of us hereby further agrees for ourselves and our 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 we 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, each of us further hereby authorizes 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, each of us hereby appoints ASSIGNEE as our common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, each of us hereby requests the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said

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application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, each of us 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 us, and that full right to convey the same as herein expressed is possessed by us.

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B. DECLARATION (37 CFR 1.63)

As below named inventors, we hereby declare that:

This declaration is directed to the patent application entitled:

BIARYL COMPOUNDS USEFUL FOR THE TREATMENT OF HUMAN DISEASES IN ONCOLOGY, NEUROLOGY AND IMMUNOLOGY; and

Office;		attached hereto or prepared for filing in the United States Patent and Trademark
States		identified by United States Application Serial No. Serial No. filed in the United and Trademark Office on Filing Date; or
Decem	⊠ ber 11,	identified by International Patent Application No. PCT/US2014/069853 filed on 2014.

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

We believe that we are the original joint inventors of a claimed invention in the application.

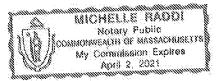
We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the application, including the claims and are 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.

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SIGNEI	O this 13 day of	<u>September</u> , 2016.
		Name Brian T. Hopkins
STATE OF	119	
COUNTY OF	m/ddlesex	88.
and proved to tr	ie through satisfactory evide to be the persor scknowledged that he/she ex	20 0 personally appeared Brian T. Hopkins, ence of identity which was a whose name is signed on the preceding or attached xecuted the same, of his/her own free will and for the
		NOTARY PUBLIC POUR I
		Name: My Commission Expires:



SIGNED	this <u>13 t/</u> day of	<u>Ceptenber</u> , 2016.
		Name; Bin Ma
STATE OF	MA Middlesex	SS.
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		MICHELLE RADOI Notary Public CONSIGNIVATION OF MASSACHUSETTS My Commission Expires April 2, 2021

Gallant Chan	9/27/16	
Name: Timothy Raymond Chan	Date	
Witness Signature;		
Harr Land	0917716	
Name (please print): NAVNEGT KESHER	Date	
Witness Signature:		
	09/27/16	
Name (please print): Sees of Design	Date	

	9-26-2016
Name: Lihong Sun	Date
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Witness Signature:	9-26-16
Name (please print): / PAV < /	Date
Witness Signature:	
Name (please print):	9-26-16- Date

SIGNED thi	s 17** day of		,20 15	uni. Unijist
		Name: Lei 2	Chang	
STATE OF	MA Middksex	SS.		
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STE, SU BELLON	9.20.206
Name (please print):	Date
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HE MAN SHAN	9,20,246
Name (please print):	Date

Name Joseph P. Lyssikatos	09/20/16 Date	
Witness Signature:		
Travic Remarcanz	09/20/16	
Name (please print):	Date	
Witness Signature: ルイン	9/20/16	
Name (please print):	Date	

SIGNED this 16th day of	<u>kalentre</u> , 2016.
	hh
	Name: Kevin Koch
STATE OF Alorado COUNTY OF ROUNDA	SS.
proved to me through satisfactory evidence	receding or attached document, and acknowledged
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Name: Hua Miao	Date
Witness Signature: Yakan Galas	9/32/24/
Name (please print): YUHONG GUO	Date
Witness Signature:	3/22/20/6
Name (please print): ///- M:/40	Date

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RECORDED: 12/20/2017