503663732 01/26/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

n v1.1 EPAS ID: PAT3710366

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WILLIAM MICHAEL SEGANISH	04/23/2014
JENNIFER HANISAK	04/22/2014
GUOQING LI	04/23/2014
RUI ZHANG	04/22/2014
HAIQUN TANG	04/22/2014

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14434348

CORRESPONDENCE DATA

Fax Number: (732)594-4720

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: 732-594-1404

Email: virginia.finno-sorrentino@merck.com

Correspondent Name: MERCK

Address Line 1: 126 EAST LINCOLN AVENUE

Address Line 2: RY86-2011A

Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	23325
NAME OF SUBMITTER:	VIRGINIA M. FINNO-SORRENTINO
SIGNATURE:	/VIRGINIA M. FINNO-SORRENTINO/
DATE SIGNED:	01/26/2016
Total Attachments, 10	

Total Attachments: 10

PATENT REEL: 037579 FRAME: 0190

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PATENT REEL: 037579 FRAME: 0191

WHEREAS, I/WE,

1	William Michael Seganish	located at	Scotch Plains, New Jersey
2	Jennifer Hanisak	located at	Stewartsville, New Jersey
3	Guoqing LI	located at	Belle Mead, New Jersey
4	Rui Zhang	located at	Plainsboro, New Jersey
5	Haiqun Tang	located at	Belle Mead, New Jersey

are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

INHIBITORS OF IRAK4 ACTIVITY

and/or in the following application(s):

- U.S. Provisional Application No. 61/710958 filed on October 8, 2012;
- U.S. Application No. 14/434348 having a filing date of April 8, 2015; and

PCT International Application No. PCT/US13/063173 having a filing date of October 3, 2013;

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the International Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of **ASSIGNEE**, without further compensation or charge to said **ASSIGNEE**, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of **ASSIGNEE**, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

Executed this	23	day of _	<u> </u>		., 2014.	
Line	MD	-Q//	7 ° ° ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′			
William Micha	el Seganish					*
ACKNOWLEDG	Le Le	of	<u>h.g.</u>)) s.s.;)	
On this	23	day of	APRIL	150 A (4 h 20 M PH) (5 h 20 m PH)	, 2014, personally appeared before me	
William Micha	el Seganish t	o me known,	and known by me to l	e the same	person described in and who executed th	ie.
foregoing instru	iment, and ac	knowledged	that he (she) executed	the same, o	f his (her) own free will for the purpose s	iet
forth.						
(Seal)			a	Market D	La Couratte	
				Notary I	TUDIIC.	

Ann LaTourette HOTARY PUBLIC OF NEW JERSEY I.D. # 2413879 My Commission Expires 10/25/2016

WHEREAS, I/WE,

1	William Michael Seganish	located at	Scotch Plains, New Jersey
2	Jennifer Hanisak	located at	Stewartsville, New Jersey
3	Guoqing LI	located at	Belle Mead, New Jersey
4	Rui Zhang	located at	Plainsboro, New Jersey
5	Haiqun Tang	located at	Belle Mead, New Jersey

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I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

1 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this 22 day of April	, 2014.
Jemifor Hanisak Hanisak	
ACKNOWLEDGEMENT State of County of (Nion)) s.s.:)
On this day of	ne person described in and who executed the foregoing
(Seal)	Notary Public

Ann LaTourette NOTARY PUBLIC OF NEW JERSEY I.D. # 2413879 My Commission Expires 10/25/2016

REEL: 037579 FRAME: 0195

WHEREAS, I/WE,

1	William Michael Seganish	located at	Scotch Plains, New Jersey
2	Jennifer Hanisak	located at	Stewartsville, New Jersey
3	Guoqing LI	located at	Belle Mead, New Jersey
4	Rui Zhang	located at	Plainsboro, New Jersey
5	Haiqun Tang	located at	Belle Mead, New Jersey

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the International Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

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I/WE HEREBY authorize ASSIGNEE to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

Executed this	day of <i>Apri</i>	<u> </u>	, 2014.
Guoqing Li			
ACKNOWLEDGEMENT	_of_N9)
County of (INION) s.s.:)
Guoging Li to me known, and k	nown by me to be the sa	me person described	, 2014, personally appeared before m l in and who executed the foregoing own free will for the purpose set forth
(Seal)		ann F	Louratta
	, marie and a second se	Notary F	ublic

Ann LaTourette
NOTARY PUBLIC OF NEW JERSEY
1.C. # 2413879
My Commission Expires 10/25/2016

Attorney Docket No.: 23325

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

1	William Michael Seganish	located at	Scotch Plains, New Jersey
2	Jennifer Hanisak	located at	Stewartsville, New Jersey
3	Guoqing LI	located at	Belle Mead, New Jersey
4	Rui Zhang	located at	Plainsboro, New Jersey
5	Haiqun Tang	located at	Belle Mead, New Jersey

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Executed this	_day of <u>04 / 2 2 · </u>	, 2014.
RJ3-2		
Rui Zhang		
·		
acknowledgement State	_of	
County of Union	/) s.s.:
On this	lay of <u>APR: 1</u>	, 2014, personally appeared before m
Rui Zhang to me known, and kn	own by me to be the same person de	scribed in and who executed the foregoing
instrument, and acknowledged t	hat he (she) executed the same, of hi	s (her) own free will for the purpose set forth
(Seal)	an	La Louratte
	1	lotary Public

Ann LaTourette NOTARY PUBLIC OF NEW JERSEY I.D. # 2413879 My Commission Expires 10/25/2016

WHEREAS, I/WE,

1	William Michael Seganish	located at	Scotch Plains, New Jersey
2	Jennifer Hanisak	located at	Stewartsville, New Jersey
3	Guoqing LI	located at	Belle Mead, New Jersey
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I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

Executed this 20	day of	April	. 20	14.
72				
Haiqun Tang				
ACKNOWLEDGEMENT State	of	ng)
County of UNION		<i>U</i>) s.s.:)
Haiqun Tang to me known	, and known by i	me to be the same pe	erson described i	14, personally appeared before m n and who executed the foregoing free will for the purpose set forth
(Seal)		Ann	La Zou	rette
			Notary Publi	c

Ann LaTourette NOTARY PUBLIC OF NEW JERSEY 1.D. # 2413879 My Commission Expires 10/25/2018