### 504561333 09/22/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4608044

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TAO YU	02/24/2016
SHERMAN T WADDELL	02/24/2016
JOHN A MCCAULEY	02/29/2016
THOMAS H GRAHAM	02/24/2016
HONG LI	02/24/2016
IZZAT RAHEEM	02/29/2016
JAY A GROBLER	02/29/2016

### **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15560896

### **CORRESPONDENCE DATA**

Fax Number:

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.

Email: us\_efs@merck.com

Correspondent Name: NICOLE M. BEELER

Address Line 1: 126 EAST LINCOLN AVE

Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	24068-US-PCT
NAME OF SUBMITTER:	TANYA L. TORRES
SIGNATURE:	/TANYA L. TORRES/
DATE SIGNED:	09/22/2017

**Total Attachments: 4** 

PATENT REEL: 043667 FRAME: 0611



PATENT REEL: 043667 FRAME: 0612

#### WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Tao Yu, located at Edison, New Jersey 08820, USA,
- (2) Sherman T. Waddell, located at Westfield, New Jersey 07090, USA,
- (3) John A. McCauley, located at Maple Glen, Pennsylvania, 19002, USA
- (4) Thomas H. Graham, located at Scotch Plains, New Jersey 07076, USA,
- (5) Hong Li, located at Edison, New Jersey, 08820, USA,
- (6) Izzat Raheem, located at Doylestown, Pennsylvania, 18902, USA, and
- (7) Jay A. Grobler, located at North Wales, Pennsylvania19454, USA.

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

PHOSPHATE SUBSTITUTED QUINOLIZINE DERIVATIVES USEFUL AS HIV INTEGRASE INHIBITORS and/or in the following application(s):

U.S. Provisional Application No. 62/138,	,716 filed on March 26, 2015;	
U.S. Application No.	having a filing date of	; and
PCT International Application No.	having a filing d	ate of

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 Inter-American 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.

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.

Executed this 24 day of 6 house, 20	16. O / O
Tao Yu	Sherman T. Waddell
Thomas H. Graham	Hồng-Lí
On this day of Sherman T. Waddell, Thomas H. Graham, and h	s.s.:  20, personally appeared before me <u>Tao Yu,</u> 10ng Li, to me known, and known by me to be the same person(s)  10 ument, and acknowledged that he (she) executed the same, of his
(Cear)	Notary Public OF NEW JERSEY 1.D. # 2055142 Commission Expires 7/26/2016
Executed this day of, 2	<u>016</u> .
John A. McCauley	Izzat Raheem
Jay A. Grobler	<del></del>
ACKNOWLEDGEMENT	
of) s County of)	s.s.;
On this day of, lzzat Raheem, and Jay A. Grobler, to me known executed the foregoing instrument, and acknowled purpose set forth.	2016, personally appeared before me John A. McCauley, and known by me to be the same person described in and who ged that he (she) executed the same, of his (her) own free will for the
(Seal)	
	Notary Public

**REEL: 043667 FRAME: 0614** 

#### WORLDWIDE ASSIGNMENT

#### WHEREAS, I/WE,

- (1) Tao Yu, located at Edison, New Jersey 08820, USA,
- (2) Sherman T. Waddell, located at Westfield, New Jersey 07090, USA,
- (3) John A. McCauley, located at Maple Glen, Pennsylvania, 19002, USA,
- (4) Thomas H. Graham, located at Scotch Plains, New Jersey 07076, USA,
- (5) Hong Li, located at Edison, New Jersey, 08820, USA,
- (6) Izzat Raheem, located at Doylestown, Pennsylvania, 18902, USA, and
- (7) Jay A. Grobler, located at North Wales, Pennsylvania19454, USA.

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PHOSPHATE SUBSTITUTED QUINOLIZINE DERIVATIVES USEFUL AS HIV INTEGRASE INHIBITORS

and/or in the following application(s):

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U.S. Application No.	having a filing date of	; and
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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 Inter-American 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.

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.

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

Executed this day of	, <u>2016</u> .	
Tao Yu		Sherman T. Waddell
Thomas H. Graham	<del></del>	Hong Li
ACKNOWLEDGEMENT		
of	)	
County of	) s.s.: )	
Thomas H. Graham, and Hong Li, to me kneed the foregoing instrument, and ackneed the foregoing instrument, and ackneed the foregoing instrument.	nown, and known by	ally appeared before me <u>Tao Yu, Sherman T, Waddell,</u> me to be the same person(s) described in and who le) executed the same, of his (her) own free will for the
purpose set forth.		
(Seal)		
	<del></del>	Notary Public
Jay A. Grobler		Ezzat Raheem
ACKNOWLEDGEMENT		
_Commonwealth of Pennsylvania County ofMontgomery	) ) s.s.: )	
izzat Kaneem, and Jay A. Grobier, to me k	known, and known by	lly appeared before me <u>John A. McCauley,</u> me to be the same person described in and who executed ed the same, of his (her) own free will for the purpose set
(Seal) COMMONWEALTH OF PENNSYLVANIA  Notarial Seal  Dorothy M. Miller, Notary Public  Upper Gwynedd Twp., Montgomery County  My Commission Expires May 14, 2017  MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIE		Notary Public

Page 2 of 2 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010