PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4983769

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTHONY K OGAWA	09/14/2016
LINDA L. BROCKUNIER	09/26/2016
JAMES TATA	09/14/2016
DANN L. PARKER JR.	09/14/2016
MING WANG	09/13/2016

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 E. LINCOLN AVE
Internal Address:	RY86-2011A
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15780134

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: 732-594-4488 us_efs@merck.com Email:

MERCK Correspondent Name: P O BOX 2000 Address Line 1:

Address Line 4: RAHWAY, NEW JERSEY 07065-0907

ATTORNEY DOCKET NUMBER:	24253-US-PCT
NAME OF SUBMITTER:	MICHELLE A. SISKO
SIGNATURE:	/Michelle A. Sisko/
DATE SIGNED:	05/30/2018

Total Attachments: 4

PATENT REEL: 045938 FRAME: 0499 source=24253-ASSIGN#page1.tif source=24253-ASSIGN#page2.tif source=24253-ASSIGN#page3.tif source=24253-ASSIGN#page4.tif

> PATENT REEL: 045938 FRAME: 0500

Attorney Docket No.: 24253

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Anthony K. Ogawa, located at New Providence, NJ,
- (2) Linda L. Brockunier, located at Orange, NJ,
- (3) James Tata, located at Westfield, NJ,
- (4) Dann L. Parker, Jr., located at Cranford, NJ,
- (5) Ming Wang, located at Belle Mead, NJ,

(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:

FACTOR XIa INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 62/26	2,099 filed on 12/02/2015;	
U.S. Application No.	having a filing date of	; and
PCT International Application No.	having a filing c	late 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.

IWE 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 14 day of Scotta 60, 201	6.
11/6	
Apthony M. Ogava	
ACKNOWLEDGEMENT	
State of New Jersey)	
) s.s.: County of Union	2016, personally appeared before me Anthony K. Ogawa
On this day of	son described in and who executed the foregoing instrument, and
(Seal)	and the second of the second o
	Notary Public
	/Notary Public
	TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021
Executed this \mathcal{X}_{0} day of \mathcal{S}_{0} day of \mathcal{S}_{0} \mathcal{S}_{0} , 201	
Luida Juh	
ACKNOWLEDGEMENT	•
State of New Jersey)	
County of Union) s.s.:	
On this <u>A6</u> day of <u>Jestews</u> , known, and known by me to be the same person de acknowledged that he (she) executed the same, of	2016, personally appeared before me Linda L. Brockunier to me escribed in and who executed the foregoing instrument, and his (her) own free will for the purpose set forth.
(,	
(Seal)	Tanya Toner Notary Public
	Notary Public
	TANYA L. TORRES

NOTARY PUBLIC OF NEW JERSE My Commission Expires June 3, 2

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Executed this 14 day of September	<mark>∕</mark> , 2016.
James Tata	
ACKNOWLEDGEMENT	
State of New Jersey	
County of Union On this day of day of known by me to be the same person describe (she) executed the same, of his (her) ov) s.s.:) (f) 2016, personally appeared before me James Tata to me known, and bed in and who executed the foregoing instrument, and acknowledged that wn free will for the purpose set forth.
(Seal)	Notary Public
	TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021
Dann L. Parker, Jr. ACKNOWLEDGEMENT	
known, and known by me to be the same p) s.s.:) (1) s.s.:) (2) (2) (2) (3) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
(Seal)	Notary Public
	TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021

REEL: 045938 FRAME: 0503

Attorney Docket No.: 24253

Executed this <u>13</u> day of <u>Suptember</u>, 2016.

Ming Wang

ACKNOWLEDGEMENT

State of New Jersey

) s.s.:

County of Union

On this 13 day of Spenber, 2016, personally appeared before me Ming Wang to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Michille a Sisko Notary Public

MICHELLE ANN SISKO Notary Public of New Jersey My Commission Expires on October 24, 2017

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