

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4246288

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WEIGUO LIU	07/16/2015
SCOTT D EDMONDSON	07/16/2015
ZHUYAN GUO	07/16/2015
ALAN HRUZA	07/16/2015
SUNG-SAU SO	07/16/2015
WANYING SUN	07/20/2015
AMJAD ALI	07/20/2015
RONGZE KUANG	07/16/2015
YING-DUO GAO	07/16/2015
ANTHONY K OGAWA	07/16/2015

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE
Internal Address:	PO BOX 2000
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15329635

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

Email: us_efs@merck.com

Correspondent Name: MERCK

Address Line 1: P O BOX 2000

Address Line 4: RAHWAY, NEW JERSEY 07065-0907

ATTORNEY DOCKET NUMBER:	23802-US-PCT
NAME OF SUBMITTER:	TANYA L TORRES
SIGNATURE:	/TANYA L. TORRES/
DATE SIGNED:	01/27/2017
Total Attachments: 6 source=23802-ASSIGN#page1.tif source=23802-ASSIGN#page2.tif source=23802-ASSIGN#page3.tif source=23802-ASSIGN#page4.tif source=23802-ASSIGN#page5.tif source=23802-ASSIGN#page6.tif	

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- | | |
|-------------------------|--|
| (1) Weiguo Liu, | located at Princeton, New Jersey, |
| (2) Scott D. Edmondson, | located at Clark, New Jersey, |
| (3) Zhuyan Guo, | located at Scotch Plains, New Jersey, |
| (4) Alan Hruza, | located at Hackettstown, New Jersey, |
| (5) Sung-Sau So, | located at Verona, New Jersey, |
| (6) Wanying Sun, | located at Edison, New Jersey, |
| (7) Amjad Ali, | located at Freehold, New Jersey, |
| (8) Rongze Kuang, | located at Green Brook, New Jersey, |
| (9) Ying-Duo Gao, | located at Holmdel, New Jersey, |
| (10) Anthony K. Ogawa, | located at New Providence, New Jersey, |

(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. 62/029,772 filed on 07-28-2014;
 U.S. Application No. _____ having a filing date of _____; and
 PCT International Application No. _____ having a filing date 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.

PATENT

Executed this 16 day of July, 2015.

[Signature]
Weiguo Liu

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Weiguo Liu** 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)

[Signature]
Notary Public

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

Executed this 16 day of July, 2015.

[Signature]
Scott D. Edmondson

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Scott D. Edmondson** 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)

[Signature]
Notary Public

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

Executed this 16 day of July, 2015.

[Signature]
Zhuyan Guo

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Zhuyan Guo** 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)

[Signature]
Notary Public

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

Executed this 16 day of July, 2014.

[Signature]
Alan Hruza

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Alan Hruza** 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)

[Signature]
Notary Public

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

Executed this 16 day of July, 2015.

Sung-Sau So

Sung-Sau So

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Sung-Sau So** 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)

Michelle Ann Sisko
Notary Public

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

Executed this 20 day of July, 2015.

Wanying Sun

Wanying Sun

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 20 day of July, 2015, personally appeared before me **Wanying Sun** 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)

Michelle Ann Sisko
Notary Public

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

Executed this 20 day of July, 2015.

Amjad Ali
Amjad Ali

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 20 day of July, 2015, personally appeared before me **Amjad Ali** 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)

Michelle Ann Sisko
Notary Public
MICHELLE ANN SISCO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 16 day of July, 2015.

Rongze Kuang
Rongze Kuang

ACKNOWLEDGEMENT

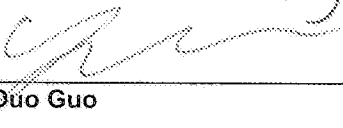
State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Rongze Kuang** 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)

Michelle Ann Sisko
Notary Public
MICHELLE ANN SISCO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 16 day of July, 2015.



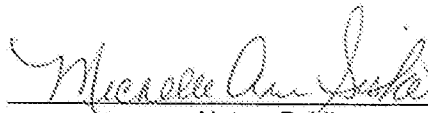
Ying-Duo Guo

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Ying-Duo Guo** 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.

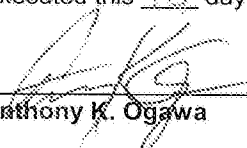
(Seal)



Notary Public

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

Executed this 16 day of July, 2015.



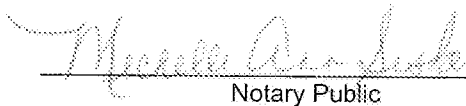
Anthony K. Ogawa

ACKNOWLEDGEMENT

State of New Jersey)
) s.s.:
County of Union)

On this 16 day of July, 2015, personally appeared before me **Anthony K. Ogawa** 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)



Notary Public

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

PATENT