

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3993109

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SANTHOSH F. NEELAMKAVIL	02/04/2015
SCOTT D. EDMONDSON	02/04/2015
ZHUYAN GUO	02/04/2015
ALAN W. HRUZA	02/04/2015
ZAHID HUSSAIN	02/04/2015
CHARLES A. LESBURG	02/06/2015
REMOND MONINGKA	02/04/2015
ANTHONY K. OGAWA	02/04/2015
RUDRAJIT MAL	02/04/2015
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:	15116659
CORRESPONDENCE DATA	
Fax Number:	(732)594-4720
<i>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.</i>	
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
NAME OF SUBMITTER:	TANYA L. TORRES
SIGNATURE:	/Tanya L. Torres/

DATE SIGNED:	08/04/2016
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Total Attachments: 12

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WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Santhosh F. Neelamkavil, located at Edison, New Jersey, 08820,
- (2) Scott D. Edmondson, located at Clark, New Jersey, 07066,
- (3) Zhuyan Guo, located at Scotch Plains, New Jersey, 07076,
- (4) Alan W. Hruza, located at Hackettstown, New Jersey, 07840,
- (5) Zahid Hussain, located at Dayton, New Jersey, 08810,
- (6) Charles A. Lesburg, located at Newton, Massachusetts, 02468,
- (7) Remond Moningka, located at Jersey City, New Jersey, 07307,
- (8) Anthony K. Ogawa, located at New Providence, New Jersey, 07974,
- (9) Rudrajit Mal, located at Piscataway, New Jersey, 08854,

(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. 61/938,230 filed on 02-11-2014;
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.

Executed this 4 day of February, 2015.

[Signature]
Santhosh F. Neelamkavil

ACKNOWLEDGEMENT

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

On this 4 day of February, 2015, personally appeared before me **Santhosh F. Neelamkavil** 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 SISKO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 4 day of February, 2015.

[Signature]
Scott D. Edmondson

ACKNOWLEDGEMENT

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

On this 4 day of February, 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 SISKO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 7 day of February, 2015.

[Signature]
Zhuyan Guo

ACKNOWLEDGEMENT

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

On this 7 day of February, 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 SISKO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 7 day of February, 2015.

[Signature]
Alan W. Hruza

ACKNOWLEDGEMENT

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

On this 7 day of February, 2015, personally appeared before me **Alan W. 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 SISKO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 4 day of February, 2015.

Zahid Hussain
Zahid Hussain

ACKNOWLEDGEMENT

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

On this ____ day of _____, 2015, personally appeared before me **Zahid Hussain** 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 ____ day of _____, 2015.

Charles A. Lesburg
Charles A. Lesburg

ACKNOWLEDGEMENT

Commonwealth of Massachusetts)
) s.s.:
County of _____)

On this ____ day of _____, 2015, personally appeared before me **Charles A. Lesburg** 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

Executed this 4 day of February, 2015.

[Signature]
Remond Moningka

ACKNOWLEDGEMENT

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

On this 4 day of February, 2015, personally appeared before me **Remond Moningka** 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 SISKO
Notary Public of New Jersey
My Commission Expires on October 24, 2017

Executed this 4 day of February, 2015.

[Signature]
Anthony K. Ogawa

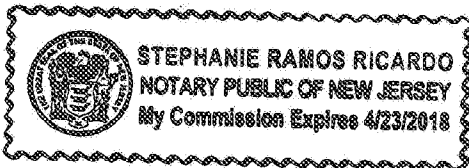
ACKNOWLEDGEMENT

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

On this 4 day of February, 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)

[Signature]
Notary Public



Executed this 4 day of February, 2015.

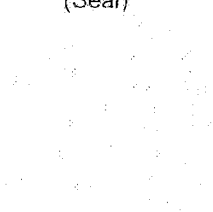
Rudrajit Mal

ACKNOWLEDGEMENT

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

On this 4 day of February, 2015, personally appeared before me **Rudrajit Mal** 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

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Santhosh F. Neelamkavil, located at Edison, New Jersey, 08820,
- (2) Scott D. Edmondson, located at Clark, New Jersey, 07066,
- (3) Zhuyan Guo, located at Scotch Plains, New Jersey, 07076,
- (4) Alan W. Hruza, located at Hackettstown, New Jersey, 07840,
- (5) Zahid Hussain, located at Dayton, New Jersey, 08810,
- (6) Charles A. Lesburg, located at Newton, Massachusetts, 02468,
- (7) Remond Moningka, located at Jersey City, New Jersey, 07307,
- (8) Anthony K. Ogawa, located at New Providence, New Jersey, 07974,
- (9) Rudrajit Mal, located at Piscataway, New Jersey, 08854,

(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. 61/938,230 filed on 02-11-2014;
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.

Attorney Docket No.: 23730

Executed this ____ day of _____, 2015.

Santhosh F. Neelamkavil

ACKNOWLEDGEMENT

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

On this ____ day of _____, 2015, personally appeared before me **Santhosh F. Neelamkavil** 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

Executed this ____ day of _____, 2015.

Scott D. Edmondson

ACKNOWLEDGEMENT

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

On this ____ day of _____, 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)

Notary Public

Executed this ____ day of _____, 2015.

Zhuyan Guo

ACKNOWLEDGEMENT

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

On this ____ day of _____, 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)

Notary Public

Executed this ____ day of _____, 2015.

Alan W. Hruza

ACKNOWLEDGEMENT

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

On this ____ day of _____, 2015, personally appeared before me **Alan W. 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)

Notary Public

Executed this ____ day of _____, 2015.

Remond Moningka

ACKNOWLEDGEMENT

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

On this ____ day of _____, 2015, personally appeared before me **Remond Moningka** 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

Executed this ____ day of _____, 2015.

Anthony K. Ogawa

ACKNOWLEDGEMENT

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

On this ____ day of _____, 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

Attorney Docket No.: 23730

Executed this ____ day of _____, 2015.

Rudrajit Mal

ACKNOWLEDGEMENT

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

On this ____ day of _____, 2015, personally appeared before me **Rudrajit Mal** 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