PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3797473

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNOR PETER W. WUELFING SHOULD READ W. PETER WUELFING previously recorded on Reel 036448 Frame 0039. Assignor(s) hereby confirms the ORIGINAL ASSIGNMENT WAS WORNGLY LISTED AS PETER W. WUELFING.

CONVEYING PARTY DATA

Name	Execution Date
FRANK CHEN	03/25/2013
CARMELA MOLINARO	03/27/2013
W. PETER WUELFING	03/10/2016
NOBUYOSHI YASUDA	03/21/2013
JIANGUO YIN	04/04/2013
YONG-LI ZHONG	04/02/2013
JOSEPH LYNCH	04/01/2013
TERESA ANDREANI	03/22/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14399483

CORRESPONDENCE DATA

Fax Number:	(732)594-4720
	o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.
Phone:	732-594-3751
Email:	us_efs@merck.com
Correspondent Name:	MERCK SHARP & DOHME CORP.
Address Line 1:	126 EAST LINCOLN AVENUE
Address Line 2:	RY862011A
Address Line 4:	RAHWAY, NEW JERSEY 07065

NAME OF SUBMITTER:	CHRISTINE RAPACKI
SIGNATURE:	/Christine Rapacki/
DATE SIGNED:	03/23/2016
Total Attachments: 19	
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Attorney Docket No.: 23236

WORLDWIDE ASSIGNMENT

WHEREAS, IME,

(1) Frank Chen, located at Plainsboro, New Jersey,

(2) Carmela Molinaro, located at Lansdale, Pennsylvania,

(3) Retacial Muelling, located at Harleysville, Pennsylvania, W, PETER Wuelfing District (4) Nobuyoshi Yasuda, located at Mountainside, New Jersey, (5) Janguo Yip Jacated at Mountainside, New Jersey,

- (5) Jlanguo Yin, located at Plainsboro, New Jersey,
- (6) Yong-Li Zhong, located at Edison, New Jersey
- (7) Joseph Lynch, located at Plainfield, New Jersey
- (8) Teresa Andreani, located at Matawan, 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:

PROCESS FOR MAKING CGRP RECEPTOR ANTAGONISTS

and/or in the following application(s):

- U.S. Provisional Application No. 61/644631 filed on 05/09/2012; U.S. Application No. <u>14/399,483</u> having a filing date of <u>11/06/2014</u> PCT International Application No. _____ having a filing date of ; and

WHEREAS IWE 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 IWE 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 alding 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 Templete "Assignment-Merch Sherp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sherp & Dohme Corp. 11/04/2010

Executed this 10th day of March ,2016 -Poter-W. Wuelling---- ω . (R Wuelfing ACKNOWLEDGEMENT . Ongagogo ealth s.s.: County of 1 On this 10 day of 10000, 2016, personally appeared before me Reter.W. Wuelfing 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) 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 NOTARIES Notary Public

, 20 Executed this _____ day of

Nobuyoshi Yasuda

ACKNOWLEDGEMENT

) 8.8.: County of

On this _____ day of _____, 20___, personally appeared before me Nobuyoshi Yasuda t known, and known by me to be the same person described in and who executed the foregoing instrument, and ..., personally appeared before me Nobuyoshi Yasuda to me acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Page 3 of 5 Computer Generaled Template "Assignment-Marck Sharp & Ochma, Bingle Assignee Worldwide" (Assignment) Marck Sharp & Dohme Corp. 11/04/2010

> PATENT REEL: 038237 FRAME: 0817

Silolile

W. Peter

Attorney Docket No.: 23236

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1) Frank Chen, located at Plainsboro, New Jersey,

(2) Carmela Molinaro, located at Lansdale, Pennsylvania,

(3) Peter W. Wuelfing, located at Harleysville, Pennsylvania,

(4) Nobuyoshi Yasuda, located at Mountainside, New Jersey,

(5) Jianguo Yin, located at Plainsboro, New Jersey,

(6) Yong-Li Zhong, located at Edison, New Jersev

(7) Joseph Lynch, located at Plainfield, New Jersey

(8) Teresa Andreani, located at Matawan, New Jersev

(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:

PROCESS FOR MAKING CGRP RECEPTOR ANTAGONISTS

and/or in the following application(s):

U.S. Provisional Application No. 61/644631 filed on 05/09/2012;

U.S. Application No. <u>14/399,483</u> having a filing date of <u>11/06/2014</u>; 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 sald 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, reissues, renewals and extensions thereof of any of said 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 $\underline{25}$ day of \underline{March} , 2013.

Frank Chen

ACKNOWLEDGEMENT

Сояньниха) s.s.: County of

On this 24 March ___, 20 13, personally appeared before me Frank Chen day of 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 _____, 20____,

Carmela Molinaro

ACKNOWLEDGEMENT

of) s.s.: County of

On this _____ day of ___ , 20____, personally appeared before me Carmela Molinaro 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

PATENT REEL: 038237 FRAME: 0819

Page 2 of 5 Computer Generated Template "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2019

Executed this day of			
Jianguo Yin			
ACKNOWLEDGEMENT			
of)		
of County of) s.s.:)		
On this day of and known by me to be the same perso that he (she) executed the same, of his	, 20, pers n described in and who	conally appeared before me Jian executed the foregoing instrum	guo Yin to me known, ent, and acknowledged
. ,	(nei) own nee win for t	le purpose sectoral.	
(Seal)		Notary Public	
		Notary Public	
· · ·			
Executed this day of	, 20		
Yong-Li Zhong			
	•		
ACKNOWLEDGEMENT			
of)) s.s.:		
County of)		
On this day of to me known, and known by me to be the acknowledged that he (she) executed the	he same person descri	bed in and who executed the for	egoing instrument, and
(Seal)			
	***********	Notary Public	

Executed this _____ day of _____, 20___.

Joseph Lynch

ACKNOWLEDGEMENT

______ of ______) s.s.: County of ______)

On this _____ day of _____, 20___, personally appeared before me Joseph Lynch 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.

Notary Public

(Seal)

Executed this ____ day of _____ , 20____.

Teresa Andreani

ACKNOWLEDGEMENT

_____ of _____) County of _____)s.s.:

On this _____ day of ______, 20____, personally appeared before me Teresa Andreani 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

Page 5 of 5 Computer Generated Template "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Attorney Docket No.: 23236

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Frank Chen, located at Plainsboro, New Jersey,
- (2) Carmela Molinaro, located at Lansdale, Pennsylvania,
- (3) Peter W. Wuelfing, located at Harleysville, Pennsylvania,
- (4) Nobuyoshi Yasuda, located at Mountainside, New Jersey,
- (5) Jianguo Yin, located at Plainsboro, New Jersey,
- (6) Yong-Li Zhong, located at Edison, New Jersey
 (7) Joseph Lynch, located at Plainfield, New Jersey
- (8) Teresa Andreani, located at Matawan, New Jersev

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PROCESS FOR MAKING CGRP RECEPTOR ANTAGONISTS

and/or in the following application(s):

U.S. Provisional Application No. 61/64463	
U.S. Application No. 14/399,483	having a filing date of <u>11/06/2014</u> ; 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.

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

Executed this _____ day of _____, 20__

Frank Chen

ACKNOWLEDGEMENT

_____ of ____) \$.5.: County of

On this _____ day of _ On this _____ day of _____, 20___, personally appeared before me Frank Chen 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 27 day of March , 2013. Carnela Molinano.

Carmela Molinaro

ACKNOWLEDGEMENT

Manautal 40 of <u>CAAded Otax</u>) 8.5.: County of Landers en

On this $\frac{22}{2}$ day of $\frac{22}{2}$ day of $\frac{22}{2}$, $\frac{20}{3}$, personally appeared before me Carmela Molinaro 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

COMMONWEALTH OF PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER, PENNEYL JAURA ASSOCIATION OF BUTARIES

Page 2 of 5 Computer Generated Template "Assignment-Marck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Worldwide Assignment

Attorney Docket No.: 23236

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Frank Chen, located at Plainsboro, New Jersey,
- (2) Carmela Molinaro, located at Lansdale, Pennsylvania,
- (3) Peter W. Wuelfing, located at Harleysville, Pennsylvania,
- (4) Nobuyoshi Yasuda, located at Mountainside, New Jersey,
- (5) Jianguo Yin, located at Plainsboro, New Jersey,
- (6) Yong-Li Zhong, located at Edison, New Jersey(7) Joseph Lynch, located at Plainfield, New Jersey
- (8) Teresa Andreani, located at Matawan, 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:

PROCESS FOR MAKING CGRP RECEPTOR ANTAGONISTS

and/or in the following application(s):

U.S. Provisional Application No. 61/64463		
U.S. Application No14/399,483	having a filing date of	11/06/2014 ; and
PCT International Application No.		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.

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

Executed this _____ day of _____, 20___.

Frank Chen

ACKNOWLEDGEMENT

______ of _____)
County of ______) s.s.:

On this _____ day of _____, 20___, personally appeared before me Frank Chen 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 ______, 20_____,

Carmela Molinaro

ACKNOWLEDGEMENT

_____ of _____) s.s.: County of _____)

On this _____ day of _____, 20___, personally appeared before me Carmela Molinaro 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 _____, 20____,

Peter W. Wuelfing

ACKNOWLEDGEMENT

...... Of _____

On this ______ day of ______, 20____, personally appeared before me Peter W. Wuelfing 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.

) s.s.:

(Seal)

County of

Notary Public

Executed this <u>21</u> day of <u>Mar 4</u>, 2019 off. Ma

Nobuyoshi Yasuda

ACKNOWLEDGEMENT S.S.: County of

On this \mathcal{A} day of \mathcal{M} and \mathcal{M} , 20 \mathcal{M} , personally appeared before me Nobuyoshi Yasuda 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)

05 AND Notáry Publić

ROCEL S. PARAS-SANJUR OTARY PUBLIC OF NEW JERSEY Summission Explose September 14, 2017

Executed this 44 day of April , 20/3

Jianguo Yin

ACKNOWLEDGEMENT

) s.s.: County of

On this 40° day of 40° , 20° , personally appeared before me Jianguo Yin 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)

adar Notary Public

PIA ROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSBY Ny Commission Explore Soptember 14, 2017

Executed this _2⁴ day of ______ , 20 [3 Yorlg-Li Zhong

ACKNOWLEDGEMENT of New Jersee) S.S.: i 1.10 - WA County of_

On this $\frac{2m}{day}$ of $\frac{2m}{day}$, $20^{1/3}$, personally appeared before me Yong-Li Zhong 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)

t start to be Sound 0.2 10.1.18.19 Nótary Públic

PIAROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSEY My Chamadana Englisis September 14, 2017

20/5 Executed this day of Joseph Lynch

ACKNOWLEDGEMENT

S.S.: County Ş

On this $1/2^{3/2}$ day of $1/2^{3/2}$, $20/2^{3/2}$, personally appeared before me Joseph Lynch 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)

artilin are l Notáry Public

PIA ROCEL 8. PNRAS-BANAURJO NOTARY PUBLIC OF NEW JERSEY My Committation Equilant Stationatory 14, 2017

Executed this 22 day of MARCH , 2013.

Teresa Andreani

ACKNOWLEDGEMENT S.S.: mas County of

On this $\frac{d}{d}$ day of $\frac{M}{d}$ with $\frac{d}{d}$, $\frac{20/3}{3}$, personally appeared before me Teresa Andreani 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), pwn free will for the purpose set forth.

(Seal)

anna Notary Public

PIA ROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSEY 88 Ox kon Explore Sendember 14, 2017

Page 5 of 5 Computer Generated Templete "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Marck Sharp & Dohme Corp. 11/04/2010



United States Patent and Trademark Office

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Electronic Patent Assignment System

Confirmation Receipt

Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FRANK CHEN	03/25/2013
CARMELA MOLINARO	03/27/2013
PETER W. WUELFING	03/27/2013
NOBUYOSHI YASUDA	03/21/2013
JIANGUO YIN	04/04/2013
YONG-LI ZHONG	04/02/2013
JOSEPH LYNCH	04/01/2013
TERESA ANDREANI	03/22/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type

Number

Application Number:	14	399483			
CORRESPONDENCE DATA					
Fax Number:	(732)594-4720				
	732-594-3751				
Email:	us_efs@merck.com				
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.					
-	THERCK SHARP & DOHME				
Name:	CORP.				
Address Line 1:	126 EAST LINCOLN AVENUE				
Address Line 2:	RY86-2011A				
Address Line 4:	RAHWAY, NEW JERSEY 07065				
ATTORNEY DOCKET NUMBER:		23236			
NAME OF SUBMITTER:		CHRISTINE RAPACKI			
Signature:		/Christine Rapacki/			
Date:		08/28/2015			

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will be sent via US Mail.					
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	CORP.				
Address Line 1:	126 EAST LINCOLN AVENUE				
Address Line 2:	RY86-2011A				
	RAHWAY, NEW JERSEY 07065				
ATTORNEY DOCKET NUMBER:		23236			
NAME OF SUBMITTER:		CHRISTINE RAPACKI			
Signature:		/Christine Rapacki/			
Date:		08/28/2015			