PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2593099

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CORRECT APPLICATION NO. 61237487 previously recorded on Reel 031469 Frame 0737. Assignor(s) hereby confirms the ASSIGNMENT RECORDED UNDER WRONG APPLICATION NUMBER.

CONVEYING PARTY DATA

Name	Execution Date
SCOTT D EDMONDSON	02/16/2012
LEHUA CHANG	02/17/2012
NAM-FUNG KAR	02/16/2012
GREGORI J MORRIELLO	02/22/2012
CHRISTOPHER R. MOYES	02/17/2012
DONG-MING SHEN	02/16/2012
CHENG ZHU	02/17/2012
NEVILLE J. ANTHONY	02/24/2012
PHILIP JONES	03/05/2012
GRAHAM F. SMITH	02/27/2012
MARK E. SCOTT	02/23/2012
CHRISTOPHER F. THOMPSON	02/23/2012
JOON JUNG	02/16/2012
CAROLYN CAMMARANO	02/16/2012
DAWN MARIE HOFFMAN	02/23/2012

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE
Internal Address:	RY862011-A
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13392282

PATENT **REEL: 031505 FRAME: 0408** 502547562

CORRESPONDENCE DATA

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 (732)594-4720

 Phone:
 7325943751

 Email:
 us_efs@merck.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: MERCK SHARP & DOHME CORP.

Address Line 1: P.O. BOX 2000 Address Line 2: RY862011-A

Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	MRLBRE00019	
NAME OF SUBMITTER:	PATRICIA A. SHATYNSKI	
Signature:	/Patricia A. Shatynski, Reg. # 43,109/	
Date:	10/28/2013	

Total Attachments: 20

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> PATENT REEL: 031505 FRAME: 0409

WORLDWIDE ASSIGNMENT

WHEREAS, IWE,

- (1) Scott D. Edmondson, located at Clark, NJ,
- (2) Lehua Chang, located at Ramsey, NJ,
- (3) Nam Fung Kar, located at Brooklyn, NY,
- (4) Gregori J. Morriello, located at Randolph, NJ,
- (5) Christopher R. Moyes, located at Westfield, NJ,
- (6) Dong-Ming Shen, located at Edison, NJ,
- (7) Cheng Zhu, located at Edison, NJ,

(hereinafter ASSIGNOR(S)), together with Neville J. Anthony, located at Northborough, MA, Philip Jones, located at Cambridge, MA, Graham F. Smith, located at Sudbury, MA, Mark E. Scott, located at Andover, MA, Christopher F. Thompson located at Arlington, MA, Joon Jung, located at Newton, MA, Carolyn Cammarano, located at Worcestor, MA, Dawn Marie Hoffman, located at Boston, MA are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

NOVEL PYRROLIDINE DERIVED BETA 3 ADRENERGIC RECEPTOR AGONISTS

and/or in the following application(s):

U.S. Provisional Application No. 61/237,4	87 filed on 08/27/2009;		
U.S. Application No.	_ having a filing date of	; and	
PCT International Application No.	having a filing date o	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.

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

ACKNOWLEDGEMENT

State of new Jersey) s.s.:

On this day of figure , 20) personally appeared before me **Scott D. Edmondson** to me known, and known by me to be the same person(s) 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)

CHRISTINE J. RAPACKI

NCTARY PUBLIC OF NEW JERSEY
My Commission Expires January 31, 2013

Executed this 4	\mathcal{H}_{day} of \mathcal{F}_{day}	<u>-96, </u>	
Lehua Chang	1/48-	The state of the s	

AMERICAN	the total of the between the
ALC: MENTED VALLE	EDGEMENT

County of Uner Jersey) s.s.:

On this // day of _____, 20//, personally appeared before me Lehua Chang 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)

Christia J. Kafach

CHRISTINE J. RAPACKI MC/ARY PUBLIC OF NEW JERSEY My Commission Expires January 31, 2013

Executed this 16 day of fabruary, 20/2.

Nam-Fung Kar

ACKNOWLEDGEMENT

State of Mew Jersey

Sounty of Man Sersey

Ser

On this day of d

(Seal)

Notary Public

Attorney Docket No.: MRL-BRE-00019

CHRISTINE J. RAPACKI NOTARY PUBLIC OF NEW JERSEY My Commission Expires January 31, 2013

CHRISTINE J. RAPACKI

14: TARY PUBLIC OF NEW JERSEY

My Commission Expires January 31, 2013

acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

CHRISTINE J. RAPACKI

NCTARY PUBLIC OF NEW JERSEY
My Commission Expires January 31, 2013

Executed this 16 day of Feb , 2012.

Dong-Ming Shen

ACKNOWLEDGEMENT

State of Men Jersey) s.s.:

County of Union) s.s.:

On this // day of Fabruary , 20 / 2 personally appeared before me Dong-Ming Shen to m

On this <u>futury</u>, 20 12, personally appeared before me **Dong-Ming Shen** 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)

CHRISTINE J. RAPACKI
NGTARY PUBLIC OF NEW JERSEY
My Commission Expires January 31, 2013

Executed this 17 day of Feb. , 20	
- Jul	
Cheng Zhu	
ACKNOWLEDGEMENT	
I take or his Jersey	
County of Union for Server s.s.	
On this // day of, 20 and known by me to be the same person described in that he (she) executed the same, of his (her) own free	personally appeared before me Cheng Zhu to me known, and who executed the foregoing instrument, and acknowledged will for the purpose set forth.
(Seal)	Christian Paperski
	*
	CHRISTINE J. RAPACKI
	My Compassion Expired James L. 2019

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Neville J. Anthony, located at Northborough, MA,
- (2) Philip Jones, located at Cambridge, MA,
- (3) Graham F. Smith, located at Sudbury, MA,
- (4) Mark E. Scott, located at Andover, MA,(5) Christopher F. Thompson, located at Arlington, MA,
- (6) Joon Jung, located at Newton, MA
- (7) Carolyn Cammarano, located at Worcestor, MA,
- (8) Dawn Marie Hoffman, located at Boston, MA,

(hereinafter ASSIGNOR(S)), together with Scott D. Edmondson, located at Clark, NJ, Lehua Chang, located at Ramsey, NJ, Nam Fung Kar, located at Brooklyn, NY, Gregori J. Morriello, located at Randolph, NJ, Christopher R. Moyes located at Westfield, NJ, Dong-Ming Shen, located at Edison, NJ, Cheng Zhu, located at Edison, NJ are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

NOVEL PYRROLIDINE DERIVED BETA 3 ADRENERGIC RECEPTOR AGONISTS

and/or in the following application(s):

U.S. Provisional Application No. 61/237,4	187 filed on 08/27/2009;	
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;

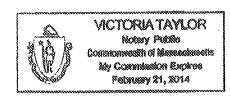
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our 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 24 day of Februan .	20 <u>12</u>
North J. Atten	
Neville J. Anthony	
ACKNOWLEDGEMENT	
COMMONWEALTH OF MASS ACHUSE	DTS
County of SUFFOHC) s.s.:)
known, and known by me to be the same perso	, 20 // personally appeared before me Neville J. Anthony to me n(s) described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)	Uctora Bo
	Notary Public



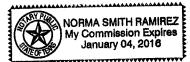
Philip Jones day of Maran , 2012

ACKNOWLEDGEMENT

County of Harris)s.s.

On this 5th day of 1000, 2012, personally appeared before me Philip Jones 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)



Executed this 17 day of 100 Graham F. Smith

ACKNOWLEDGEMENT

County of Sufficiency) s.s.:

On this Att day of FEBRUARY, 2012, personally appeared before me Graham F. Smith 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

VICTORIA TAYLOR

Notary Public Communication of Massachusetts My Commission Expires Petruery 21, 2014

Executed this 23 day of 6, 20/2.
Mark E. Scott

ACKNOWLEDGEMENT

Common WEARTH of MASSACHUSETITS

County of SUFFOLK

On this And day of Leblus 2012, personally appeared before me Mark E. Scott 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.

(Sea!)

VICTORIA TAYLOR

Notary Public

Notary Public
Commonwealth of Meseschesette
May Commission Expires
February 21, 2014

Executed this 23 day of February, 2012

Christopher F. Thompson

ACKNOWLEDGEMENT

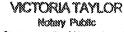
COMMONWEALTH OF MASSACHUSEOUTS

County of SUFFOLK

On this 23rd day of Fibruary, 20 12 personally appeared before me Christopher F. Thompson 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



Notery Public Commonwealth of Masseahusette My Commission Expres Petrussy 21, 2014

Executed this day of2/16	.20_/2
	·
Joon Jung	
ACKNOWLEDGEMENT	
On this /// day of known by me to be the same person described he (she) executed the same, of his (her) own free) s.s.:) , 20 <u></u>
(Seal)	Notary Public JOHN C. CHANG Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires November 3, 2017

Executed this 16 day of February	, 2012
Caroly Camma	
Carolyn Cammarano	
	•
ACKNOWLEDGEMENT	
of)
County of Ubracester) s.s.:)
	_ , 20[2_, personally appeared before me Carolyn Cammarano to me
known, and known by me to be the same person	n 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
	JOSEPH D. GREEN Notary Public, Commonwealth of Massachusetts My Commission Expires June 2, 2017

Executed this 33 day of February, 2012

Day Ward Land III

ACKNOWLEDGEMENT

Commonwealth or MASSACHUSCITCS

County of SWFTOLK

On this Aday of Flakuary, 2012, personally appeared before me Dawn Marie Hoffman 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



VICTORIA TAYLOR
Notary Public
Communication of Massechesetts
Nay Commission Express

February 21, 2014



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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

NEW ASSIGNMENT SUBMISSION TYPE: NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

Name	Execution Date
SCOTT D. EDMONDSON	02/16/2012
LEHUA CHANG	02/17/2012
NAM-FUNG KAR	02/16/2012
GREGORI J. MORRIELLO	02/22/2012
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CAROLYN CAMMARANO	02/16/2012
DAWN MARIE HOFFMAN	02/23/2012

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Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE

Internal Address:	RY862011-A	
City:	RAHWAY	
State/Country:	NEW JERSEY	
Postal Code:	07065	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	61237487

CORRESPONDENCE DATA

Fax Number:

(732)594-4720

Phone:

7325941652

Email:

us_efs@merck.com

Correspondent Name:

Correspondence will be sent via US Mail when the email attempt is unsuccessful. MERCK SHARP & DOHME CORP.

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P,O. BOX 2000

Address Line 2:

RY862011-A

Address Line 4:

RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET

NUMBER:

MRLBRE00019

PATRICIA A. SHATYNSKI NAME OF SUBMITTER:

Signature:

/Patricia A. Shatynski, Reg. # 43109/

Date:

10/24/2013

Total Attachments: 17

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source=MRLBRE00019-ASSIGN-24OCTOBER2013#page16.tif source=MRLBRE00019-ASSIGN-24OCTOBER2013#page17.tif RECEIPT INFORMATION

EPAS ID:

PAT2589874

Receipt Date: Fee Amount:

10/24/2013 \$40

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