# 505484611 05/20/2019 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5531415

SUBMISSION TYPE:	NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE	: ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DATA			
	Name	Execution Date	
JOHN S. DEBENHAM		06/06/2017	
JASON M. COX		06/06/2017	
PING LAN		06/06/2017	
ZHONGXIANG SUN		06/06/2017	
ZHE FENG		06/06/2017	
CHUNRUI SUN		06/06/2017	
W MICHAEL SEGANISH		05/26/2017	
ZHONG LAI		06/06/2017	
CHENG ZHU		06/06/2017	
THOMAS BARA		06/06/2017	
MURALI RAJAGOPALAN		11/17/2017	
QUN DANG		07/28/2017	
HYUNJIN M. KIM		06/13/2017	

MERCK SHARP & DOHME CORP	
126 EAST LINCOLN AVENUE	
RY86-2011A	
RAHWAY	
NEW JERSEY	
: 07065	

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16462344

# 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:	732 594-4000	
Email:	us_efs@merck.com	

-	CK & CO., INC. . BOX 2000		
	6-2011A		
	WAY, NEW JERSEY 07065		
ATTORNEY DOCKET NUMBER:	24402-US-PCT		
NAME OF SUBMITTER:	PAMELA SPALDING		
SIGNATURE:	/Pamela Spalding/		
DATE SIGNED:	05/20/2019		
Total Attachments: 32			
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## Attorney Docket No.: 24402

## WORLDWIDE ASSIGNMENT

## WHEREAS, I/WE,

- (1) John S. Debenham, located at Scotch Plains, NJ
- (2) Jason M. Cox, located at East Windsor, NJ
- (3) Ping Lan, located at Plainsboro, NJ
- (4) Zhongxiang Sun, located at Princeton, NJ
- (5) Zhe Feng, located at Hillsborough, NJ
- (6) Chunrui Sun, located at Westfield, NJ
- (7) W. Michael Seganish, located at Castro Valley, CA
- (8) Zhong Lai, located at East Brunswick, NJ

- (9) Cheng Zhu, located at Edison, NJ
- (10) Thomas Bara, located at Scotch Plains, NJ
- (11) Murali Rajagopalan, located at Edison, NJ
- (12) Qun Dang, located at Westfield, NJ
- (13) Hyunjin M. Kim, located at Gyeonggi-do, South Korea

(hereinafter ASSIGNOR(S)), together with <u>Bin Hu</u>, located at <u>Shanghai</u>, <u>China</u>, and <u>Jinglai Hao</u>, located at <u>Shanghai</u>, <u>China</u> 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:

## HYDROXY ISOXAZOLE COMPOUNDS USEFUL AS GPR120 AGONISTS

and in the following application(s):

U.S. Provisional Application No. \_\_\_\_\_\_ filed on \_\_\_\_\_;

U.S. Application No. 16/462,344 having a filing date of 5/20/2019; and

PCT International Application No. PCT/CN2016/110054 having a filing date of 12/15/2016.

PCT International Application No. PCT/US2017/065499 having a filing date of 12/11/2017

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. 07/09/2010

Executed this <u>6th</u> day of <u>Quile</u>, 20<u>17</u>.

) ):s.s.:

) s.s.: )

John S. Debenham

#### ACKNOWLEDGEMENT

State of New Jersey

County of Union

On this  $10^{-1}$  day of  $20^{-1}$ ,  $20^{-1}$ , personally appeared before me John S. Debenham 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.

Notary Public (Seal) PAMELAS SPALDING Notary Public, State of New Jersey My Commission Expires January 06, 2019 Executed this 67 day of \_ \_\_\_\_\_, 20\_17\_\_. ine

Jason M. Cox

#### ACKNOWLEDGEMENT

State of New Jersey

County of Union

On this 67h day of 2000, 2000, 2000, personally appeared before me Jason M. Cox 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)

Panele S.S. Notary Public PAMELAS, SPALDING Notary Public, State of New Jerse My Commission Expires January 06, 2019

Page 2 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Attorney Docket No.: 24402

Executed this 6th day of \_\_\_\_, 20\_17\_. sne Lan

#### ACKNOWLEDGEMENT

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

On this (dth) day of (dth) day of (dth), 20 17, personally appeared before me **Ping Lan** 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) rime Q ().( Notary Public PAMELA S. SPATDING Notary Public, State of New Jersey My Commission Expires January 06, 2019 Executed this 6th June ,20\_17. day of \_

Zhongxiang Sun

## ACKNOWLEDGEMENT

State of New Jersey

County of Union

) s.s.: )

On this 67h day of 2017, personally appeared before me **Zhongxiang 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) amel PAMELAS, SPALDING Notary Pu lic. Notary Public, State of New Jersey My Commission Expires January 06, 2019

Page 3 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this 6th day of gune, 2017.

) s.s.:

Zhe Feng

#### ACKNOWLEDGEMENT

State of New Jersey

County of Union

On this  $\underline{(fh)}$  day of  $\underline{(h)}$  day of  $\underline{(h)}$ , 20 17, personally appeared before me **Zhe Feng** 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.

Panela S. (Seal) PAMELAS. SPALOUNG Notary Public, State of New Jerse My Commission Expires January 06, 2019 \_, 20\_17\_ Executed this 6th ine day of \_ Chunrui Sun ACKNOWLEDGEMENT State of New Jersey ) s.s.: County of Union On this  $6^{+h}$  day of  $9^{+h}$  day of  $9^{+h}$ ,  $20^{-17}$ , personally appeared before me **Chunrui 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. Pamelas.s Notary Public (Seal) PAMELA'S. SPALDING Notary Public, State of New Jersey My Commission Expires

Page 4 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignces Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

> PATENT REEL: 049234 FRAME: 0306

January 06, 2019

Executed this 2 V day of \_\_\_\_\_ Michael Seganish

) s.s.:

#### ACKNOWLEDGEMENT

State of New Jersey

County of Union

On this  $26^{\text{th}}$  day of May, 2017, personally appeared before me W. Michael Seganish 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.

lanela S. G Notary Publ Spali (Seal) PAMELA S-SPALDING Notary Public, State of New Jersey My Commission Expires January 06, 2019 Executed this 6th day of OLLOC \_\_\_\_\_. 20\_17\_\_. Zhong Lai ACKNOWLEDGEMENT State of New Jersey ) s.s.: County of Union On this  $6^{+h}$  day of  $20^{17}$ , personally appeared before me Zhong Lai 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. tamela (Seal) PAMELAS. SPALDING Notary Rublic Notary Public, State of New Jersey My Commission Expires January 06, 2019

Page 5 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this 6th day of gune ,20\_17\_

Cheng Zhu

#### ACKNOWLEDGEMENT

State of New Jersey

) s.s.:

) s.s.: )

County of Union

On this  $10^{+h}$  day of  $20^{+1}$ ,  $20^{+1}$ , personally appeared before me **Cheng Zhu** 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.

(Seai) PAMELA S. SPALDING Notary Public, State of New Jersey My Commission Expires January 06, 2019 Executed this 6th day of 9 . 20\_17 CALL CR Thomas Bara ACKNOWLEDGEMENT

## State of New Jersey

County of Union

On this 4 day of 4 day of 2012, personally appeared before me Thomas Bara 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.

Kanela S. Spalde (Seal) PAMELAS. SPALDING Notary Public, State of New Jersey My Commission Expires

Page 6 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

PATENT REEL: 049234 FRAME: 0308

January 06, 2019

Executed this	day of	, 20 .
L'VECTION ILUS	uu, u,	

Murali Rajagopalan

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Murali Rajagopalan** 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_.

Qun Dang

## ACKNOWLEDGEMENT

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 2017, personally appeared before me **Qun Dang** 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.

Witness 1:

**Print Name** 

Signature

Witness 2:

Print Name

Signature

Page 7 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Hyunjin M. Kim

#### ACKNOWLEDGEMENT

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 2017, personally appeared before me **Hyunjin M. Kim** 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.

Witness 1:

Print Name

Witness 2:

Print Name

Signature

Signature

## Attorney Docket No.: 24402

## WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) John S. Debenham, located at Scotch Plains, NJ
- (2) Jason M. Cox, located at East Windsor, NJ
- (3) Ping Lan, located at Plainsboro, NJ
- (4) Zhongxiang Sun, located at Princeton, NJ
- (5) Zhe Feng, located at Hillsborough, NJ
- (6) Chunrul Sun, located at Westfield, NJ
- (7) W. Michael Seganish, located at Castro Valley, CA
- (8) Zhong Lai, located at East Brunswick, NJ

- (9) Cheng Zhu, located at Edison, NJ
- (10) Thomas Bara, located at Scotch Plains, NJ
- (11) Murali Rajagopalan, located at Edison, NJ
- (12) Qun Dang, located at Westfield, NJ
- (13) Hyunjin M. Kim, located at Gyeonggi-do, South Korea

(hereinafter ASSIGNOR(S)), together with <u>Bin Hu</u>, located at <u>Shanghai</u>, <u>China</u>, and <u>Jinglai Hao</u>, located at <u>Shanghai</u>, <u>China</u> 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:

## HYDROXY ISOXAZOLE COMPOUNDS USEFUL AS GPR120 AGONISTS

and in the following application(s):

U.S. Provisional Appl	ication No.	filed on		t
U.S. Application No.	16/462,344	having a filing date of _	5/20/2019	; and

PCT International Application No. PCT/CN2016/110054 having a filing date of 12/15/2016.

PCT International Application No. PCT/US2017/065499 having a filing date of 12/11/2017

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. 07/09/2010

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

John S. Debenham

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me John S. Debenham 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

) s.s.:

Jason M. Cox

#### ACKNOWLEDGEMENT

State of New Jersey

County of Union

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me Jason M. Cox 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.: 24402

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_.

Ping Lan

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Ping Lan** 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_,

) s.s.:

Zhongxiang Sun

#### ACKNOWLEDGEMENT

State of New Jersey

County of Union

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Zhongxiang 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)

Notary Public



Executed this da	y of		20
------------------	------	--	----

Zhe Feng

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Zhe Feng** 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Chunrui Sun

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Chunrui 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)

Notary Public



Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_.

W. Michael Seganish

### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **W. Michael Seganish** 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_.

Zhong Lai

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Zhong Lai** 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

th day of November, 2017. Executed this Murali Rajagopalan

) s.s.:

#### ACKNOWLEDGEMENT

State of New Jersey

County of Middlesex

On this  $17^{+h}$  day of <u>November</u>, 2017, personally appeared before me **Murali Rajagopalan** 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)	Panela S. S Notary Public	PAMELA 5. SPALDING Notary Public, State of New Jersey My Commission Expires January 06, 2019
Executed this day of	, 20	gentinettimettimettimettimettimettimettim

## Qun Dang

## ACKNOWLEDGEMENT

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 2017, personally appeared before me **Qun Dang** 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.

Witness 1:

**Print Name** 

Signature

Witness 2:

Print Name

Signature

Page 7 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Hyunjin M. Kim

## ACKNOWLEDGEMENT

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 2017, personally appeared before me Hyunjin M. Kim 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.

Witness 1:

Print Name

Signature

Witness 2:

Print Name

Signature



Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Cheng Zhu

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Cheng Zhu** 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Thomas Bara

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Thomas Bara** 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.: 24402

## WORLDWIDE ASSIGNMENT

## WHEREAS, I/WE,

- (1) John S. Debenham, located at Scotch Plains, NJ
- (2) Jason M. Cox, located at East Windsor, NJ
- (3) Ping Lan, located at Plainsboro, NJ
- (4) Zhongxiang Sun, located at Princeton, NJ
- (5) Zhe Feng, located at Hillsborough, NJ
- (6) Chunrui Sun, located at Westfield, NJ
- (7) W. Michael Seganish, located at Castro Valley, CA
- (8) Zhong Lai, located at East Brunswick, NJ

- (9) Cheng Zhu, located at Edison, NJ
- (10) Thomas Bara, located at Scotch Plains, NJ
- (11) Murali Rajagopalan, located at Edison, NJ
- (12) Qun Dang, located at Westfield, NJ
- (13) Hyunjin M. Kim, located at Gyeonggi-do, South Korea

(hereinafter ASSIGNOR(S)), together with <u>Bin Hu</u>, located at <u>Shanghai</u>, <u>China</u>, and <u>Jinglai Hao</u>, located at <u>Shanghai</u>, <u>China</u> 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:

## HYDROXY ISOXAZOLE COMPOUNDS USEFUL AS GPR120 AGONISTS

and in the following application(s):

U.S. Provisional Application No.	filed or	,
U.S. Application No. 16/462,3	44 having a filing date of	; and

PCT International Application No. PCT/CN2016/110054 having a filing date of 12/15/2016.

PCT International Application No. PCT/US2017/065499 having a filing date of 12/11/2017.

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, 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. 07/09/2010

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

John S. Debenham

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **John S. Debenham** 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

Jason M. Cox

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me Jason M. Cox 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 2 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Workdwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this	day of	
Ping Lan		
ACKNOWLEDGEME	NT	
State of New Jersey	) ) s.s.:	
County of Union	) 5.5	
On this known, and known by acknowledged that he	day of me to be the same per (she) executed the sar	, 20, personally appeared before me <b>Ping Lan</b> to me son(s) described in and who executed the foregoing instrument, and ne, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Zhongxiang Sun	•	
ACKNOWLEDGEME	NT	
State of New Jersey	) ) s.s.:	
County of Union	)	
On this me known, and knowr acknowledged that he	day of to by me to be the same (she) executed the sar	, 20, personally appeared before me <b>Zhongxiang Sun</b> to person described in and who executed the foregoing instrument, and ne, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Page 3 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this	day of	, 20
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Zhe Feng

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Zhe Feng** 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Chunrui Sun

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me Chunrui 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

W. Michael Seganish

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **W. Michael Seganish** 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Zhong Lai

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Zhong Lai** 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\_\_\_\_.

Cheng Zhu

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Cheng Zhu** 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_

**Thomas Bara** 

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Thomas Bara** 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\_

Murali Rajagopanalan

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me Murali Rajagopanalan 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)

Notary Public

Executed this 28% day of July , 20\_1] \_\_\_\_\_

**Qun Dang** 

## ACKNOWLEDGEMENT

On this  $33^{h}$  day of  $30^{h}$  day of  $30^{h}$ , 2017, personally appeared before me **Qun Dang** 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.

Witness 1:

Qing-Ying Chen O

Signature

Witness 2:

Print Name

MING KONG Ming K

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Hyunjin M. Kim

## ACKNOWLEDGEMENT

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 2017, personally appeared before me Hyunjin M. Kim 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.

Witness 1:

Print Name

Signature

Witness 2:

Print Name

Signature

## Attorney Docket No.: 24402

## WORLDWIDE ASSIGNMENT

## WHEREAS, I/WE,

- (1) John S. Debenham, located at Scotch Plains, NJ
- (2) Jason M. Cox, located at East Windsor, NJ
- (3) Ping Lan, located at Plainsboro, NJ
- (4) Zhongxiang Sun, located at Princeton, NJ
- (5) Zhe Feng, located at Hillsborough, NJ
- (6) Chunrui Sun, located at Westfield, NJ
- (7) W. Michael Seganish, located at Castro Valley, CA
- (8) Zhong Lai, located at East Brunswick, NJ

- (9) Cheng Zhu, located at Edison, NJ
- (10) Thomas Bara, located at Scotch Plains, NJ
- (11) Murali Rajagopalan, located at Edison, NJ
- (12) Qun Dang, located at Westfield, NJ
- (13) Hyunjin M. Kim, located at Gyeonggi-do, South Korea

(hereinafter ASSIGNOR(S)), together with <u>Bin Hu</u>, located at <u>Shanghai</u>, <u>China</u>, and <u>Jinglai Hao</u>, located at <u>Shanghai</u>, <u>China</u> 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:

## HYDROXY ISOXAZOLE COMPOUNDS USEFUL AS GPR120 AGONISTS

and in the following application(s):

U.S. Provisional Appli	cation No.	filed on		
U.S. Application No.	16/462,344	having a filing date of	5/20/2019	; and

PCT International Application No. PCT/CN2016/110054 having a filing date of 12/15/2016.

PCT International Application No. PCT.US2017/065499 having a filing date of 12/11/2017

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, divisions, reexaminations, relssues, 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 Wondwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

John S. Debenham

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me John S. Debenham 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_,

Jason M. Cox

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Jason M. Cox** 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.:	<u>24402</u>
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Executed this	day of	, 20
Ping Lan		en de la companya de
ACKNOWLEDGEME	NT	
State of New Jersey County of Union	) ) s.s.: )	
known, and known by	me to be the same perso	, 20, personally appeared before me <b>Ping Lan</b> 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)		
		Notary Public
Executed this	day of	
Zhongxiang Sun		
ACKNOWLEDGEME	NT	
State of New Jersey County of Union	) ) s.s.: )	
On this me known, and knowr		, 20, personally appeared before me <b>Zhongxiang Sun</b> to erson described in and who executed the foregoing instrument, and , of his (her) own free will for the purpose set forth.
(Seal)		Niston Dublis
		Notary Public

Page 3 of 8 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this day of, 20	day of, 20
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Zhe Feng

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Zhe Feng** 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)

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

Chunrui Sun

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Chunrui 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)

Notary Public



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

W. Michael Seganish

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me W. Michael Seganish 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Zhong Lai

## ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Zhong Lai** 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
Cheng Zhu		
		an a
ACKNOWLEDGEME	NT	
State of New Jersey	) ) s.s.: )	
County of Union	)	
On this known, and known by acknowledged that he	day of me to be the same ( (she) executed the	, 20, personally appeared before me <b>Cheng Zhu</b> to person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	
Thomas Bara		
ACKNOWLEDGEME	NT	
State of New Jersey	) ) s.s.:	
County of Union	)	
On this known, and known by acknowledged that he	day of me to be the same p (she) executed the	, 20, personally appeared before me <b>Thomas Bara</b> person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Murali Rajagopalan

#### ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Murali Rajagopalan** 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)

Notary Public

Executed this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Qun Dang

## ACKNOWLEDGEMENT

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 2017, personally appeared before me **Qun Dang** 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.

Witness 1:

**Print Name** 

Signature

Witness 2:

Print Name

Signature

100

PATENT REEL: 049234 FRAME: 0334

Executed this 3 day of Jane, 2017.
X
Hyunjin M. Kim

#### ACKNOWLEDGEMENT

On this  $13^{th}$  day of  $3^{th}$  day of  $3^{th}$ , 2017, personally appeared before me Hyunjin M. Kim 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.

Witness 1: Hosung Yu Print Name J Young 12 CHOI Signature Witness 2: Print Name Signature

# **RECORDED: 05/20/2019**