06/07/2016 503858580

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3905229

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHUZHI DONG	10/31/2014
ALEXANDER PASTERNAK	10/24/2014
XIN GU	10/24/2014
QINGHONG FU	10/24/2014
JINLONG JIANG	10/24/2014
FA-XIANG DING	10/24/2014
HAIFENG TANG	10/24/2014
REYNALDA K. DEJESUS	10/24/2014

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:	15101481

CORRESPONDENCE DATA

Fax Number: (732)594-4000

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 **Correspondent Name:** MERCK & CO., IN.C Address Line 1: P. O. BOX 2000 Address Line 2: RY86-2011A

Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	23699-US-PCT
NAME OF SUBMITTER:	PAMELA SPALDING

PAIENI REEL: 038825 FRAME: 0455 503858580

SIGNATURE:	/Pamela Spalding/
DATE SIGNED:	06/07/2016
Total Attachments: 10	
source=23699USPCT-ASSIGN-07JUN2016#page1.tif	
source=23699USPCT-ASSIGN-07JUN2016#page2.tif	
source=23699USPCT-ASSIGN-07JUN2016#page3.tif	
source=23699USPCT-ASSIGN-07JUN2016#page4.tif	
source=23699USPCT-ASSIGN-07JUN2016#page5.tif	
source=23699USPCT-ASSIGN-07JUN2016#page6.tif	
source=23699USPCT-ASSIGN-07JUN2016#page7.tif	
source=23699USPCT-ASSIGN-07JUN2016#page8.tif	
source=23699USPCT-ASSIGN-07JUN2016#page9.tif	
source=23699USPCT-ASSIGN-07JUN2016#page10.tif	

PATENT REEL: 038825 FRAME: 0456

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1) Shuzhi Dong,
(2) Alexander Pasternak,
(3) Xin Gu,
(4) Qinghong Fu,
(5) Jinlong Jiang,
(6) Fa-Xiang Ding,
located at Plainsboro, NJ,
located at, Scotch Plains, NJ,
located at Plainsboro, NJ,
located at Scotch Plains, NJ,
located at Plainsboro, NJ,

(7) Haifeng Tang, located at, Metuchen, NJ,(8) Reynalda K. DeJesus, located at East Brunswick, NJ

(hereinafter ASSIGNOR(S)), together with Takao Suzuki, located at Shanghai, China,

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:

INHIBITORS OF THE RENAL OUTER MEDULLARY POTASSIUM CHANNEL

and/or in the following application(s):

U.S. Provisional Application No. filed on ; U.S. Application No. $\frac{15/101,481}{}$ having a filing date of $\frac{6/3/2016}{}$; and PCT International Application No. $\frac{PCT/CN2013/090335}{}$ having a filing date of $\frac{December 24, 2013}{}$.

PCT International Application No. PCT/US2014/071336 having a filing date of December 19, 2014.

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

Executed this 31 day of 65 ber , 2014
8hiz ho Dong
Shuzhi Dong
ACKNOWLEDGEMENT
STATE OF NEW JERSEY)) s.s.:
County of UNION)
On this day of
(Seal) Notary Public
Executed this 24 day of October, 2014
Alexander Pasternak
ACKNOWLEDGEMENT
STATE OF NEW JERSEY) s.s.:
County of UNION)
On this day of day of 2014, personally appeared before me Alexander Pasternak 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) // Voel James Jongson

PIA ROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSEY My Cammission Expires September 14, 2017

Executed this 24 day of	014
Xin Gu	
ACKNOWLEDGEMENT	
	2014, personally appeared before me Xin Gu to me known, and knowr executed the foregoing instrument, and acknowledged that he (she) purpose set forth.
(Seal)	Hei Coul Janes Smjorge Notary Public
e e e e e e e e e e e e e e e e e e e	PIA ROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSEY My Commission Expires September 14, 2017
Executed this , 20	014
Qinghong Fu	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY	
County of UNION) s.s.:	
On this day of, 2 known by me to be the same person described in ar (she) executed the same, of his (her) own free will for	2014, personally appeared before me Qinghong Fu to me known, and ond who executed the foregoing instrument, and acknowledged that he or the purpose set forth.
(Seal)	
•	Notary Public

Executed this 4 day of Octo , 2014
Jinlong Jiang /
ACKNOWLEDGEMENT
STATE OF NEW JERSEY)) s.s.:
County of UNION)
On this day of day of 2014, personally appeared before me Jinlong Jiang 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
PIA ROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSEY My Commission Expires September 14, 2017
Executed this 24 day of October, 2014 Fa-Xiang Ding
ACKNOWLEDGEMENT
STATE OF NEW JERSEY) s.s.:
On this day of d
PIA ROCEL S. PARAS-SANJURJO MOTARY PUBLIC OF NEW JERSEY My Commission Explose September 14, 2017

Page 4 of 5

Page 4 Of 5.

Computer Generated Temptate "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme. Corp. #704/2015 FATENT

Executed this 24 day of October, 2	014
U	
Haifeng Tang	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY) s.s.:	
County of UNION)	
On this <u>At</u> day of <u>Relative</u> , a known by me to be the same person described in a (she) executed the same, of his (her) own free will f	2014, personally appeared before me Haifeng Tang to me known, and nd who executed the foregoing instrument, and acknowledged that he for the purpose set forth.
(Seal)	Notary Public Sonjon
The Children	PIA ROCEL S. PARAS-SANJURJO NOTARY PUBLIC OF NEW JERSEY My Cemmission Expires September 14, 2017
Executed this day of (), 2	014
Reynalda K. DeJesus	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY) s.s.:	
County of UNION)	
On this day of the same person do acknowledged that he (she) executed the same, of	2014, personally appeared before me Reynalda K. DeJesus to me escribed in and who executed the foregoing instrument, and his (her) own free will for the purpose set forth.
(Seal)	Word Public Public
	KAREN ANN MARGIOTIO
	Commission # 2215590 Notary Public, State of New Jers My Commission Expires October 22, 2018

Page 5 of 5

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1) Shuzhi Dong, located at Plainsboro, NJ,

(2) Alexander Pasternak,
(3) Xin Gu, located at Princeton, NJ,
 located at, Scotch Plains, NJ,
 located at Plainsboro, NJ,
 located at Plainsboro, NJ,
 located at Scotch Plains, NJ,

(6) Fa-Xiang Ding, located at Scotch Flams, NJ, located at, Staten Island, NY, (7) Haifeng Tang, located at, Metuchen, NJ,

(8) Reynalda K. DeJesus, located at East Brunswick, NJ

(hereinafter ASSIGNOR(S)), together with Takao Suzuki, located at Shanghai, China,

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:

INHIBITORS OF THE RENAL OUTER MEDULLARY POTASSIUM CHANNEL

and/or in the following application(s):

U.S. Provisional Application No. filed on ;
U.S. Application No. 15/101,481 having a filing date of 6/3/2016 ; and PCT International Application No. PCT/CN2013/090335 having a filing date of December 24, 2013.

PCT International Application No. PCT/US2014/071336 having a filing date of December 19, 2014

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

Executed this day of _(, 2014
Xin Gu	·····
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY)	
County of UNION) s.s.:	
On this day of by me to be the same person described in and w executed the same, of his (her) own free will for the	, 2014, personally appeared before me Xin Gu to me known, and known ho executed the foregoing instrument, and acknowledged that he (she) he purpose set forth.
(Seal)	
	Notary Public
Executed this 34 day of October,	2014
Qinghong Fu	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY	
County of UNION) s.s.:	
On this 24 day of OCTORES	, 2014, personally appeared before me Qinghong Fu to me known, and

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



CLAIRE BETTY PELLENBERG NOTARY PUBLIC OF NEW JERSEY

My Commission Expires July 17, 2019

Executed this day of	, 2014
Shuzhi Dong	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY)	
County of UNION) s.	S.:
On this day of known by me to be the same person describe (she) executed the same, of his (her) own free	, 2014, personally appeared before me Shuzhi Dong to me known, and d in and who executed the foregoing instrument, and acknowledged that he will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	, 2014
Alexander Pasternak	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY)	
County of UNION)	S.:
known, and known by me to be the same pers	, 2014, personally appeared before me Alexander Pasternak to me son 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	, 2014
Jinlong Jiang	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY) s.s.:	
County of UNION)	
On this day of known by me to be the same person described ir (she) executed the same, of his (her) own free w	, 2014, personally appeared before me Jinlong Jiang to me known, and n and who executed the foregoing instrument, and acknowledged that he ill for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	, 2014
Fa-Xiang Ding	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY)	
County of UNION) s.s.:	
On this day of known by me to be the same person described in (she) executed the same, of his (her) own free w	, 2014, personally appeared before me Fa-Xiang Ding to me known, and and who executed the foregoing instrument, and acknowledged that he ill for the purpose set forth.
(Seal)	
	Notary Public

Executed this day of ,	2014
Haifeng Tang	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY) s.s.:	
County of UNION)	
On this day of known by me to be the same person described in (she) executed the same, of his (her) own free wil	, 2014, personally appeared before me Haifeng Tang to me known, and and who executed the foregoing instrument, and acknowledged that he I for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of ,	2014
Reynalda K. DeJesus	
ACKNOWLEDGEMENT	
STATE OF NEW JERSEY)	
County of UNION) s.s.:	
On this day of known, and known by me to be the same person acknowledged that he (she) executed the same, or	, 2014, personally appeared before me Reynalda K. DeJesus to me described in and who executed the foregoing instrument, and 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. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT