

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5363371

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|---|---------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | ASHOK ARASAPPAN | 05/08/2018 |
| | JOHN S. DEBENHAM | 05/08/2018 |
| | ZHUYAN GUO | 05/08/2018 |
| | JIAFANG HE | 05/08/2018 |
| | ZAHID HUSSAIN | 05/08/2018 |
| | ZHONG LAI | 05/08/2018 |
| | DONGFANG MENG | 05/08/2018 |
| | SRIRAM TYAGARAJAN | 05/08/2018 |
| RECEIVING PARTY DATA | | |
| Name: | MERCK SHARP & DOHME CORP. | |
| Street Address: | 126 EAST LINCOLN AVENUE | |
| City: | RAHWAY | |
| State/Country: | NEW JERSEY | |
| Postal Code: | 07065 | |
| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 16001295 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (732)594-4720 | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | | |
| Phone: | 732-594-3904 | |
| Email: | US_EFS@MERCK.COM | |
| Correspondent Name: | MERCK SHARP & DOHME CORP. | |
| Address Line 1: | 126 EAST LINCOLN AVENUE | |
| Address Line 4: | RAHWAY, NEW JERSEY 07065 | |
| ATTORNEY DOCKET NUMBER: | 24468 | |
| NAME OF SUBMITTER: | PIA PARAS-SANJURJO | |
| SIGNATURE: | /PIA PARAS-SANJURJO/ | |

| | |
|---|------------|
| DATE SIGNED: | 02/06/2019 |
| Total Attachments: 7 source=24468Assignment-06Feb2019#page1.tif source=24468Assignment-06Feb2019#page2.tif source=24468Assignment-06Feb2019#page3.tif source=24468Assignment-06Feb2019#page4.tif source=24468Assignment-06Feb2019#page5.tif source=24468Assignment-06Feb2019#page6.tif source=24468Assignment-06Feb2019#page7.tif | |

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Ashok Arasappan, located at Bridgewater, New Jersey,
- (2) Jason M. Cox, located at Whitehouse Station, New Jersey,
- (3) John S. Debenham, located at Scotch Plains, New Jersey,
- (4) Zhuyan Guo, located at Scotch Plains, New Jersey,
- (5) Jiafang He, located at South Brunswick, New Jersey,
- (6) Zahid Hussain, located at Dayton, New Jersey,
- (7) Zhong Lai, located at East Brunswick, New Jersey,
- (8) Derun Li, located at Boston, Massachusetts,
- (9) Dongfang Meng, located at Morganville, New Jersey,
- (10) Subharekha Raghavan, located at Teaneck, New Jersey,
- (11) Sriram Tyagarajan, located at Edison, New Jersey,

(hereinafter ASSIGNOR(S)) 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:

PYRAZOLOPYRIMIDINE PDE9 INHIBITORS

and in the following application(s):

U.S. Provisional Application No. 62/516,903 filed on June 08, 2017;
U.S. Provisional Application No. 62/665,840 filed on May 02, 2018;
U.S. Application No. 16/001,295 having a filing date of 06/06/2018; 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.

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

Executed this 8th day of May, 2018.

Ashok Arasappan

ACKNOWLEDGEMENT

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

On this 8th day of May, 2018, personally appeared before me Ashok Arasappan 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)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Executed this ____ day of May, 2018.

Jason M. Cox

ACKNOWLEDGEMENT

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

On this ____ day of May, 2018, 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

Executed this 8 day of May, 2018.

John S. Debenham
John S. Debenham

ACKNOWLEDGEMENT

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

On this 8 day of May, 2018, personally appeared before me **John S. Debenham** 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)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Executed this 8 day of May, 2018.

Zhuyan Guo
Zhuyan Guo

ACKNOWLEDGEMENT

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

On this 8 day of May, 2018, personally appeared before me **Zhuyan Guo** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Executed this 8th day of May, 2018.

Jiafang He

ACKNOWLEDGEMENT

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

On this 8th day of May, 2018, personally appeared before me Jiafang He 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)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Executed this 8th day of May, 2018.

Zahid Hussain

ACKNOWLEDGEMENT

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

On this 8th day of May, 2018, personally appeared before me Zahid Hussain to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Attorney Docket No.: 24468

Executed this 8 day of May, 2018.

Zhong Lai

ACKNOWLEDGEMENT

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

On this 8 day of May, 2018, 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)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Executed this ____ day of May, 2018.

Derun Li

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Derun Li proved to me through satisfactory evidence of identification, which was _____, to be the person whose name is signed on the preceding document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.

Notary Public:

My Commission Expires: _____

Attorney Docket No.: 24468

Executed this 24 day of May, 2018.

Dongfang Meng

ACKNOWLEDGEMENT

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

On this 24 day of May, 2018, personally appeared before me Dongfang Meng 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)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023

Executed this ____ day of May, 2018.

Subharekha Raghavan

ACKNOWLEDGEMENT

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

On this ____ day of May, 2018, personally appeared before me Subharekha Raghavan 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 8th day of May, 2018.

Sriram Tyagarajan
Sriram Tyagarajan

ACKNOWLEDGEMENT

State of New Jersey)

) s.s.:

County of Union)

On this 8th day of May, 2018, personally appeared before me Sriram Tyagarajan 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)

Pia Rocel S. Paras-Sanjurjo
Notary Public

PIA ROCEL S. PARAS-SANJURJO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires on January 10, 2023