

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5915378

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALEXANDER PASTERNAK	04/18/2018
SHUZHONG DONG	04/26/2018
JACK D. SCOTT	04/23/2018
HAIQUN TANG	04/23/2018
ZHIQIANG ZHAO	04/23/2018
DEXI YANG	04/23/2018
XIN GU	05/16/2018
JINIONG JIANG	04/23/2018
LI XIAO	04/23/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MERCK SHARP & DOHME CORP.
<b>Street Address:</b>	126 EAST LINCOLN AVENUE
<b>Internal Address:</b>	RY862011A
<b>City:</b>	RAHWAY
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07065
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16631673
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	732-594-1251
<b>Email:</b>	christine.kanellidis@merck.com
<b>Correspondent Name:</b>	MERCK
<b>Address Line 1:</b>	P O BOX 2000
<b>Address Line 4:</b>	RAHWAY, NEW JERSEY 07065-0907
<b>ATTORNEY DOCKET NUMBER:</b>	24474USPCT

<b>NAME OF SUBMITTER:</b>	CHRISTINE KANELIDIS
<b>SIGNATURE:</b>	/CHRISTINE KANELIDIS/
<b>DATE SIGNED:</b>	01/16/2020
<b>Total Attachments: 9</b> source=24474-Assignment-jan2020#page1.tif source=24474-Assignment-jan2020#page2.tif source=24474-Assignment-jan2020#page3.tif source=24474-Assignment-jan2020#page4.tif source=24474-Assignment-jan2020#page5.tif source=24474-Assignment-jan2020#page6.tif source=24474-Assignment-jan2020#page7.tif source=24474-Assignment-jan2020#page8.tif source=24474-Assignment-jan2020#page9.tif	

## WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Alexander Pasternak, located at Princeton, New Jersey, USA,
- (2) Shuzhi Dong, located at Plainsboro, New Jersey, USA,
- (3) Jack D. Scott, located at Scotch Plains, New Jersey USA,
- (4) Haiqun Tang, located at Belle Mead, New Jersey, USA,
- (5) Zhiqiang Zhao, located at Scotch Plains, New Jersey, USA,
- (6) Dexi Yang, located at Livingston, New Jersey, USA,
- (7) Xin Gu, located at Scotch Plains, New Jersey, USA,
- (8) Jinlong Jiang, located at Scotch Plains, New Jersey, USA, and
- (9) Li Xiao, located at Cranbury, New Jersey, USA.

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

## METALLO-BETA-LACTAMASE INHIBITORS AND METHODS OF USE THEREOF

and/or in the following application(s):

U.S. Provisional Application No. 62/533,171 filed on July 17, 2017;  
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 \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Alexander Pasternak\_\_\_\_\_  
Shuzhi Dong\_\_\_\_\_  
Jack D. Scott\_\_\_\_\_  
Haiqun Tang

## ACKNOWLEDGEMENT

State of NEW JERSEY )  
County of UNION ) s.s.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, personally appeared before me, Alexander Pasternak, Shuzhi Dong, Jack D. Scott, Haiqun Tang, 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 PublicExecuted this 23 day of April, 2018.Zhiqiang Zhao  
Zhiqiang Zhao\_\_\_\_\_  
Dexi Yang\_\_\_\_\_  
Li Xiao

## ACKNOWLEDGEMENT

State of NEW JERSEY )  
County of UNION ) s.s.:

On this 23 day of April, 2018, personally appeared before me Zhiqiang Zhao, Dexi Yang, Li Xiao, to me known, and known by me to be the same person described in and who executed the foregoing instrument, and that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Kelly Ann Panno  
Notary Public  
KELLY ANN PANNO  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 10, 2022

Attorney Docket No.: 24474

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

\_\_\_\_\_  
Xin Gu

**ACKNOWLEDGEMENT**

State of NEW JERSEY )  
County of UNION ) s.s.:

On this \_\_\_\_ day of \_\_\_\_\_, 2018, personally appeared before me, Xin Gu, to me known, and known by me to be the same person described in and who executed the foregoing instrument, and 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\_\_\_\_.

\_\_\_\_\_  
Jinlong Jiang

**ACKNOWLEDGEMENT**

State of NEW JERSEY )  
County of UNION ) s.s.:

On this \_\_\_\_ day of \_\_\_\_\_, 2018, 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 that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

\_\_\_\_\_  
Notary Public

Attorney Docket No.: 24474

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

\_\_\_\_\_  
**Shuzhi Dong**

**ACKNOWLEDGEMENT**

State of NEW JERSEY )  
County of UNION ) s.s.:

On this \_\_\_\_ day of \_\_\_\_\_, 2018, personally appeared before me, Shuzhi Dong, to me known, and known by me to be the same person described in and who executed the foregoing instrument, and that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

\_\_\_\_\_  
Notary Public

**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE,

- (1) Alexander Pasternak, located at Princeton, New Jersey, USA,
- (2) Shuzhi Dong, located at Plainsboro, New Jersey, USA,
- (3) Jack D. Scott, located at Scotch Plains, New Jersey USA,
- (4) Haiqun Tang, located at Belle Mead, New Jersey, USA,
- (5) Zhiqiang Zhao, located at Scotch Plains, New Jersey, USA,
- (6) Dexi Yang, located at Livingston, New Jersey, USA,
- (7) Xin Gu, located at Scotch Plains, New Jersey, USA,
- (8) Jinlong Jiang, located at Scotch Plains, New Jersey, USA, and
- (9) Li Xiao, located at Cranbury, New Jersey, USA.

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

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and/or in the following application(s):

U.S. Provisional Application No. 62/533,171 filed on July 17, 2017;  
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 23 day of April, 2018

Alexander Pasternak

Jack D. Scott

Shuzhi Dong

Haiqun Tang

## ACKNOWLEDGEMENT

State of NEW JERSEY )  
County of UNION ) s.s.:

On this 23<sup>rd</sup> day of April, 2018, personally appeared before me, Alexander Pasternak, Shuzhi Dong, Jack D. Scott, Haiqun Tang, 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)

Kelly Ann Panno  
Notary Public

**KELLY ANN PANNO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 19, 2022

Executed this 23 day of April, 2018.

Zhiqiang Zhao

Dexi Yang  
Dexi Yang

Li Xiao

## ACKNOWLEDGEMENT

State of NEW JERSEY )  
County of UNION ) s.s.:

On this 23<sup>rd</sup> day of April, 2018, personally appeared before me Zhiqiang Zhao, Dexi Yang, Li Xiao, to me known, and known by me to be the same person described in and who executed the foregoing instrument, and that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Kelly Ann Panno  
Notary Public

**KELLY ANN PANNO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 19, 2022

Executed this 16<sup>th</sup> day of May, 2018.

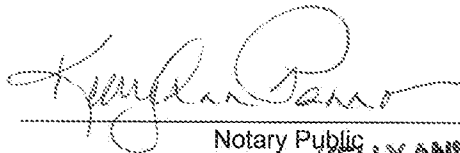
Xin Gu

**ACKNOWLEDGEMENT**

State of NEW JERSEY )  
County of UNION ) s.s.:

On this 16<sup>th</sup> day of May, 2018, personally appeared before me, Xin Gu, to me known, and known by me to be the same person described in and who executed the foregoing instrument, and that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)



Notary Public  
**KELLY ANN PANNO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 19, 2022

Executed this 23 day of April, 2018.

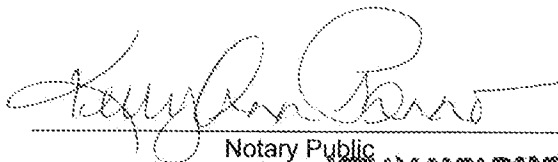
Jinlong Jiang

**ACKNOWLEDGEMENT**

State of NEW JERSEY )  
County of UNION ) s.s.:

On this 23<sup>rd</sup> day of April, 2018, 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 that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)



Notary Public  
**KELLY ANN PANNO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 19, 2022

Executed this 26 day of April, 2018.

Shuzhi Dong  
Shuzhi Dong

**ACKNOWLEDGEMENT**

State of NEW JERSEY )  
County of UNION ) s.s.:

On this 26<sup>th</sup> day of April, 2018, personally appeared before me, Shuzhi Dong, to me known, and known by me to be the same person described in and who executed the foregoing instrument, and that he (she) executed the same, of his (her) own free will for the purpose set forth.



Kelly Ann Panno  
Notary Public

KELLY ANN PANNO  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 18, 2022

Accepted and agreed to by ASSIGNEE Merck Sharp & Dohme Corp.Signature: *John C. Todaro*Name: John C. TodaroTitle: Managing Counsel, PatentsDate: 5/17/2018

## ACKNOWLEDGEMENT

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

On this 17 day of May, 2018, personally appeared before me John C. Todaro 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)

*Kelly Ann Panno*  
Notary Public

KELLY ANN PANNO  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires June 18, 2022