

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3602746

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ERIC J. GILBERT	10/08/2013
JARED N. CUMMING	10/08/2013
ANDREW W. STAMFORD	10/11/2013
YOUNONG YU	10/11/2013
JACK P. SCOTT	10/08/2013
LINGYAN WANG	10/09/2013
JOHN P. CALDWELL	10/08/2015
ULRICH ISERLOH	09/21/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MERCK SHARP & DOHME CORP.
<b>Street Address:</b>	126 EAST LINCOLN AVENUE
<b>Internal Address:</b>	RY86 2011A
<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>
Application Number:	14433298
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	7325941251
<b>Email:</b>	us_efs@merck.com
<b>Correspondent Name:</b>	KEITH MACMILLAN
<b>Address Line 1:</b>	126 EAST LINCOLN AVENUE
<b>Address Line 2:</b>	RY86 2011A
<b>Address Line 4:</b>	RAHWAY, NEW JERSEY 07065
<b>ATTORNEY DOCKET NUMBER:</b>	23307
<b>NAME OF SUBMITTER:</b>	CHRISTINE KANELIDIS

PATENT

<b>SIGNATURE:</b>	/Christinekanellidis/
<b>DATE SIGNED:</b>	11/05/2015
<b>Total Attachments: 8</b> source=23307-Assignment#page1.tif source=23307-Assignment#page2.tif source=23307-Assignment#page3.tif source=23307-Assignment#page4.tif source=23307-Assignment#page5.tif source=23307-Assignment#page6.tif source=23307-Assignment#page7.tif source=23307-Assignment#page8.tif	

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Eric J. Gilbert, located at Scotch Plains, New Jersey,
- (2) Jared N. Cumming, located at Garwood, New Jersey,
- (3) Andrew W. Stamford, located at Chatham, New Jersey,
- (4) Younong Yu, located at East Brunswick, New Jersey,
- (5) Jack D. Scott, located at Scotch Plains, New Jersey,
- (6) Ulrich Iserloh, located at 1110 Park Avenue, Apt. 2L, Hoboken, New Jersey 07030
- (7) Lingyan Wang, located at East Brunswick, New Jersey
- (8) John P. Caldwell, located at Ringwood, New Jersey

(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:

TRICYCLIC SUBSTITUTED THIADIAZINE DIOXIDE COMPOUNDS AS BACE INHIBITORS, COMPOSITIONS AND THEIR USE

and/or in the following application(s):

U.S. Provisional Application No. 61/714,969, filed on October 17, 2012;  
U.S. Provisional Application No. 61/779,366, filed on March 13, 2013;  
U.S. Application No. 14/433298 having a filing date of 10/14/2013; 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\_\_\_\_.

\_\_\_\_\_  
Eric J. Gilbert

**ACKNOWLEDGEMENT**

\_\_\_\_ of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) s.s.:  
\_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Eric J. Gilbert** 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\_\_\_\_.

\_\_\_\_\_  
Jared N. Cumming

**ACKNOWLEDGEMENT**

\_\_\_\_ of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) s.s.:  
\_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Jared N. Cumming** 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\_\_\_\_.

\_\_\_\_\_  
Andrew W. Stamford

**ACKNOWLEDGEMENT**

\_\_\_\_ of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) s.s.:  
\_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Andrew W. Stamford** 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

Worldwide Assignment

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

\_\_\_\_\_  
Younong Yu

ACKNOWLEDGEMENT

\_\_\_\_ of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) s.s.:

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Younong Yu 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\_\_\_\_.

\_\_\_\_\_  
Jack D. Scott

ACKNOWLEDGEMENT

\_\_\_\_ of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) s.s.:

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Jack D. Scott to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

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

Executed this 21st day of November, 2013.

Ulrich Iserloh  
Ulrich Iserloh

ACKNOWLEDGEMENT

November 21 of 2013 )  
County of Hudson ) s.s.:

On this 21 day of November, 2013, personally appeared before me Ulrich Iserloh 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)

Juan C. Rengifo  
Notary Public

JUAN C. RENGIFO

ID # 2406323

NOTARY PUBLIC OF NEW JERSEY

My Commission Expires 3/25/2016

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

\_\_\_\_\_  
Lingyan Wang

**ACKNOWLEDGEMENT**

\_\_\_\_\_) of \_\_\_\_\_)  
County of \_\_\_\_\_) s.s.:  
\_\_\_\_\_)

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Lingyan Wang** 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\_\_\_\_.

\_\_\_\_\_  
John P. Caldwell

**ACKNOWLEDGEMENT**

\_\_\_\_\_) of \_\_\_\_\_)  
County of \_\_\_\_\_) s.s.:  
\_\_\_\_\_)

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **John P. Caldwell** 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

**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE,

- (1) Eric J. Gilbert, located at Scotch Plains, New Jersey,
- (2) Jared N. Cumming, located at Garwood, New Jersey,
- (3) Andrew W. Stamford, located at Chatham, New Jersey,
- (4) Younong Yu, located at East Brunswick, New Jersey,
- (5) Jack D. Scott, located at Scotch Plains, New Jersey,
- (6) Ulrich Iserloh, located at 1110 Park Avenue, Apt. 2L, Hoboken, New Jersey 07030
- (7) Lingyan Wang, located at East Brunswick, New Jersey
- (8) John P. Caldwell, located at Ringwood, New Jersey

(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):

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U.S. Provisional Application No. 61/779,366, filed on March 13, 2013;  
U.S. Application No. 14/433298 having a filing date of 10/14/2013; and  
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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 8<sup>th</sup> day of October, 2013.

Eric J. Gilbert  
Eric J. Gilbert

## ACKNOWLEDGEMENT

\_\_\_\_\_ of \_\_\_\_\_ )  
County of Union ) s.s.:

On this 8<sup>th</sup> day of October, 2013, personally appeared before me Eric J. Gilbert 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)

Ann LaTourette  
Notary Public

Executed this 8 day of October, 2013.

Jared N. Cumming  
Jared N. Cumming

## ACKNOWLEDGEMENT

\_\_\_\_\_ of \_\_\_\_\_ )  
County of Union ) s.s.:

On this 8<sup>th</sup> day of October, 2013, personally appeared before me Jared N. Cumming 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)

Ann LaTourette  
Notary Public

**Ann LaTourette**  
**NOTARY PUBLIC OF NEW JERSEY**  
I.D. # 2413879  
My Commission Expires 10/25/2016

Executed this 11<sup>th</sup> day of October, 2013.

Andrew W. Stamford  
Andrew W. Stamford

## ACKNOWLEDGEMENT

State of New Jersey  
County of Union

On this 11<sup>th</sup> day of October, 2013, personally appeared before me Andrew W. Stamford 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)

Valerie H. Riggi  
Notary Public

**VALERIE H. RIGGI**  
**NOTARY PUBLIC OF NEW JERSEY**  
My Commission Exp. April 12, 2016



Worldwide Assignment

Executed this 11 day of October, 2013

Younong Yu  
Younong Yu

ACKNOWLEDGEMENT

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

On this 11th day of October, 2013, personally appeared before me Younong Yu 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)

Fia Rocel S. Paras-Sanjurjo  
Notary Public

Executed this 8 day of October, 2013

Jack D. Scott  
Jack D. Scott

**FIA ROCEL S. PARAS-SANJURJO**  
**NOTARY PUBLIC OF NEW JERSEY**  
My Commission Expires September 14, 2017

ACKNOWLEDGEMENT

\_\_\_\_\_ of \_\_\_\_\_  
County of Union, s.s.:

On this 8 day of October, 2013, personally appeared before me Jack D. Scott to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Ann LaTourette  
Notary Public

Executed this 8 day of October, 2013

**Ann LaTourette**  
**NOTARY PUBLIC OF NEW JERSEY**  
I.D. # 2413872/2016  
My Commission Expires 10/25/2016

Ulrich Iserloh  
Ulrich Iserloh

ACKNOWLEDGEMENT

\_\_\_\_\_ of \_\_\_\_\_  
County of \_\_\_\_\_, s.s.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Ulrich Iserloh 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 9<sup>th</sup> day of Oct., 2013

Lingyan Wang  
Lingyan Wang

ACKNOWLEDGEMENT

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

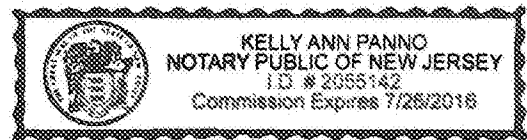
On this 9 day of October, 2013, personally appeared before me Lingyan Wang to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Kelly Ann Panno  
Notary Public

Executed this 8 day of October, 2013

John P. Caldwell  
John P. Caldwell



ACKNOWLEDGEMENT

\_\_\_\_\_ of \_\_\_\_\_ )  
County of Union ) s.s.:

On this 8<sup>th</sup> day of October, 2013, personally appeared before me John P. Caldwell 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)

Ann LaTourette  
Notary Public

Ann LaTourette  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 2413879  
My Commission Expires 10/25/2016