# 503931546 07/26/2016 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3978200

		NEW ASSIGNMENT	
NATURE OF CONVEYA	NCE:	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
H. MARIE LOUGHRAN			07/10/2014
CATHERINE M. WISCO	UNT		07/08/2014
NICOLAS ZORN			07/08/2014
JESSE J. MANIKOWSK			07/09/2014
RECEIVING PARTY DA	 TA		
Name:	MERC	K SHARP & DOHME CORP.	
Street Address:	126 E/	AST LINCOLN AVE.	
Internal Address:	RY86-:	2011A	
City:	RAHW	/AY	
State/Country:	NEW	JERSEY	
Postal Code:	07065		
PROPERTY NUMBERS	Total	I	
Property Type		Number	
		14908421	
CORRESPONDENCE D	ATA		
		(700) EOA 4700	
Fax Number:		(732)594-4720	
Correspondence will b		o the e-mail address first; if that is unsu	
Correspondence will b			
Correspondence will b using a fax number, if		o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent	
Correspondence will b using a fax number, if Phone:		o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809	
Correspondence will b using a fax number, if Phone: Email:		o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com	
Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:		o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com CAROL S. QUAGLIATO	
Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1:		o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com CAROL S. QUAGLIATO 126 EAST LINCOLN AVE.	
Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	provide	o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com CAROL S. QUAGLIATO 126 EAST LINCOLN AVE. RY86-2011A RAHWAY, NEW JERSEY 07065	
Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	provide	o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com CAROL S. QUAGLIATO 126 EAST LINCOLN AVE. RY86-2011A RAHWAY, NEW JERSEY 07065	
Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	provide	o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com CAROL S. QUAGLIATO 126 EAST LINCOLN AVE. RY86-2011A RAHWAY, NEW JERSEY 07065	
Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUNAME OF SUBMITTER:	provide	o the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 7325943809 us_efs@merck.com CAROL S. QUAGLIATO 126 EAST LINCOLN AVE. RY86-2011A RAHWAY, NEW JERSEY 07065 23536 KELLY A. PANNO	

source=23536-ASSIGN-MSD-2#page1.tif source=23536-ASSIGN-MSD-2#page2.tif source=23536-ASSIGN-MSD-2#page3.tif source=23536-ASSIGN-MSD-2#page4.tif source=23536-ASSIGN-MSD-2#page5.tif source=23536-ASSIGN-MSD-2#page6.tif source=23536-ASSIGN-MSD-2#page7.tif source=23536-ASSIGN-MSD-2#page8.tif source=23536-ASSIGN-MSD-2#page9.tif source=23536-ASSIGN-MSD-2#page10.tif source=23536-ASSIGN-MSD-2#page11.tif source=23536-ASSIGN-MSD-2#page12.tif source=23536-ASSIGN-MSD-2#page13.tif source=23536-ASSIGN-MSD-2#page14.tif source=23536-ASSIGN-MSD-2#page15.tif source=23536-ASSIGN-MSD-2#page16.tif source=23536-ASSIGN-MSD-2#page17.tif source=23536-ASSIGN-MSD-2#page18.tif source=23536-ASSIGN-MSD-2#page19.tif source=23536-ASSIGN-MSD-2#page20.tif source=23536-ASSIGN-MSD-2#page21.tif source=23536-ASSIGN-MSD-2#page22.tif source=23536-ASSIGN-MSD-2#page23.tif source=23536-ASSIGN-MSD-2#page24.tif

### Attorney Docket No.: 23536 WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Peter D. WILLIAMS, located at Harleysville, Pennsylvania 19438,
- (2) John A. MCCAULEY, located at Maple Glen, Pennsylvania, 19002.
- (3) David Jonathan BENNETT, located at Winchester, Massachusetts 01890,
  (4) Christopher J. BUNGARD, located at Lansdale, Pennsylvania 19446,
- (5) Lehua CHANG, located at Ramsey, New Jersey, 07446.
- (6) Michael P. DWYER, located at Scotch Plains, New Jersey, 07076,
- (7) M. Katharine HOLLOWAY, located at Lansdale, Pennsylvania 19446.
- (8) Kartik M. KEERTIKAR, located at East Windsor, New Jersey, 08520,
- (9) H. Marie LOUGHRAN, located at Perkasie, Pennsylvania, 18944,
- (10) Jesse J. MANIKOWSKI, located at Worcester, Pennsylvania 19403.
- (11) Gregori J. MORRIELLO, located at Randolph, New Jersey 07869.
- (12) Dong-Ming SHEN, located at Edison, New Jersey 08820,
- (13) Edward C. SHERER, located at Hillsborough, New Jersey 08844,
- (14) Jurgen SCHULZ, located at Motherwell, Scotland, NL15LE,
- (15) Sherman Tim WADDELL, located at Westfield, New Jersey 07090,
- (16) Catherine M. WISCOUNT, located at Allentown, Pennsylvania 18106, and
- (17) Nicolas ZORN, located at Durmenach, France, 68480

(hereinafter ASSIGNOR(S)), together with

- (18) Xin-Jie CHU, located at Shanghai, China,
- (19) Satvanarayana, TUMMANAPALLI, located at The Galen, Singapore,
- (20) Vijayasaradhi SIVALENKA, located at The Galen, Singapore,
- (21) Bin HU, located at, Shanghai, China,
- (22) Tao JI, located at Shanghai, China, and

(23) Bin ZHONG, 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:

### PIPERAZINE DERIVATIVES AS HIV PROTEASE INHIBITORS

and/or in the following application(s):

PCT International Application No.	PCT/CN12013/000899 having a filing date of July 31, 2013, and
PCT International Application No.	having a filing date of
US 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.

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### Attorney Docket No.: 23536

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 HEREBYauthorize ASSIGNEE to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified there of.

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 \_\_\_\_\_, 2014.

Peter D. WILLIAMS

### ACKNOWLEDGEMENT

	of _	 )
		) s.s.
County of		 )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me**Peter D. Williams,** 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)

NotaryPublic

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

John A. McCAULEY

Christopher J. BUNGARD

M. Katharine HOLLOWAY

ACKNOWLEDGEMENT

	 _ of	 ):
		) s.s.:
County of		j.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before meJohn A. MCCAULEY, Christopher J. BUNGARD, and M. Katharine HOLLOWAY, to me known, and known by me to be the same person(s)

Page 2 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

### WorldwideAssignment

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)

NotaryPublic

Attorney Docket No.: 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

**David Jonathan BENNETT** 

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_, personally appeared before meDavid Jonathan BENNETT, 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)

NotaryPublic

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

Lehua CHANG

Gregori J. MORRIELLO

Dong-Ming SHEN

Michael P. DWYER

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me, Lehua CHANG, Michael P. DWYER, Gregori J. MORRIELLO, and Dong-Ming SHEN, 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)

NotaryPublic

	Attorney Docket No. 23536
Executed this day of	_, <u>2014</u> .
Edward C. SHERER	Sherman Tim WADDELL
ACKNOWLEDGEMENT	
of	)
of County of	) S.S.© )
ioregoing instrument, and acknowledged that	, 20, personally appeared before meEdward C. SHERER, and known by me to be the same person(s) described in and who executed the he (she) executed the same, of his (her) own free will for the purpose set
forth.	
(Seal)	
	Notary Public
Executed this day of	, <u>2014</u> .
Kartik M. KEERTIKAR	-
ACKNOWLEDGEMENT	
of	
of County of	) S.S )
the known, and known by me to be the same	, 20, personally appeared before meKartik M. KEERTIKAR, to person(s) described in and who executed the foregoing instrument, and he, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this 10 day of July	<u>2014</u> .
HMaue Laughan H. Marie LOUGHRAN	_
State of ta	) ) s.s.:
County of DUCKS	j ·

Page 4 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme: Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp., 11/04/2010

WorldwideAssignment	
On this <u>LO</u> day of <u>Julk</u> known, and known by me to be the same per acknowledged that he (she) executed the sa	2014, personally appeared before meH. Marie LOUGHRAN, to m rson(s) described in and who executed the foregoing instrument, and me, of his (her) own free will for the purpose set forth.
(Se60MMONWEALTH OF PENNSYLVANIA Notarial Seal Karen S. High, Notary Public Tinicum Twp., Bucks County My Commission Expires Nov. 9, 2014	Adres Star NotaryPublic
Member, Pennsvivania Association of Notaries	Attorney Docket No. 23536
Executed this day of	<u>, 2014.</u>
Jesse J. MANIKOWSKI	
ACKNOWLEDGEMENT	
of	) ) s.s.:
On this day of me known, and known by me to be the same	, 20, personally appeared before me <b>Jesse J. MANIKOWSKI</b> , to person(s) described in and who executed the foregoing instrument, and ne, of his (her) own free will for the purpose set forth.
	NotaryPublic
Executed this day of	, <u>2014</u> .
Jurgen SCHULZ	
ACKNOWLEDGEMENT	
of	) ) s.s.:
On this day of known, and known by me to be the same pers	, 20, personally appeared before meJurgen SCHULZ, to me son(s) described in and who executed the foregoing instrument, and he, of his (her) own free will for the purpose set forth.
	NotaryPublic
Executed this day of	, <u>2014</u> .
Catherine M. WISCOUNT	_
ACKNOWLEDGEMENT	
of	)
County of	)

Page 5 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

### WorldwideAssignment

On this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_, personally appeared before meCatherine M. WISCOUNT, 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)

NotaryPublic

Attorney Docket No. 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_\_, 2014.

Nicolas ZORN

### WITNESSED BY

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me Nicolas ZORN, 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.

Witness #1

Witness #2

### Attorney Docket No.: 23536 WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- Peter D. WILLIAMS, located at Harleysville, Pennsylvania 19438,
   John A. MCCAULEY, located at Maple Glen, Pennsylvania, 19002,
- (3) David Jonathan BENNETT, located at Winchester, Massachusetts 01890,
- (4) Christopher J. BUNGARD, located at Lansdale, Pennsylvania 19446,
- (5) Lehua CHANG, located at Ramsey, New Jersey, 07446,
- (6) Michael P. DWYER, located at Scotch Plains, New Jersey, 07076,
- (7) M. Katharine HOLLOWAY, located at Lansdale, Pennsylvania 19446.
- (8) Kartik M. KEERTIKAR, located at East Windsor, New Jersey, 08520,
- (9) H. Marie LOUGHRAN, located at Perkasie, Pennsylvania, 18944,
- (10) Jesse J. MANIKOWSKI, located at Worcester, Pennsylvania 19403,
- (11) Gregori J. MORRIELLO, located at Randolph, New Jersey 07869,
- (12) Dong-Ming SHEN, located at Edison, New Jersey 08820,
- (13) Edward C. SHERER, located at Hillsborough, New Jersey 08844,
- (14) Jurgen SCHULZ, located at Motherwell, Scotland, NL15LE,
- (15) Sherman Tim WADDELL, located at Westfield, New Jersey 07090.
- (16) Catherine M. WISCOUNT, located at Allentown, Pennsylvania 18106, and
- (17) Nicolas ZORN, located at Durmenach, France, 68480

(hereinafter ASSIGNOR(S)), together with

- (18) Xin-Jie CHU, located at Shanghai, China,
- (19) Satyanarayana, TUMMANAPALLI, located at The Galen, Singapore,
- (20) Vijayasaradhi SIVALENKA, located at The Galen, Singapore,
- (21) Bin HU, located at, Shanghai, China,
- (22) Tao JI, located at Shanghai, China, and

(23) Bin ZHONG, 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:

### PIPERAZINE DERIVATIVES AS HIV PROTEASE INHIBITORS

and/or in the following application(s):

PCT International Application No.	PCT/CN12013/000899 having a filing date of July 31, 2013, and
PCT International Application No.	having a filing date of
US Application No.	having a filing date of

WHEREAS IWE 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,

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### Attorney Docket No.: 23536

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 \_\_\_\_\_\_, 2014.

Peter D. WILLIAMS

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me Peter D. Williams, 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 \_\_\_\_\_, 2014.

John A. McCAULEY

Christopher J. BUNGARD

M. Katharine HOLLOWAY

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me John A. MCCAULEY, Christopher J. BUNGARD, and M. Katharine HOLLOWAY, 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)
Page 2 of 6
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Worldwide Assignment

Notary Public

Attorney Docket No.: 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

David Jonathan BENNETT

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me David Jonathan BENNETT, 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	-*
Lehua CHANG		Michael P. DWYER
Gregori J. MORRIELLO	<del>ý, – – – –</del> –	Dong-Ming SHEN
ACKNOWLEDGEMENT		
of	) ) s.s.: )	
DWYER, Gregori J. MORRIELLO, and Dong	g-Ming SH	_, personally appeared before me, Lehua CHANG, Michael P EN, to me known, and known by me to be the same person t, and acknowledged that he (she) executed the same, of his

(Seal)

Notary Public

	Attorney Docket No. 23536
Executed this day of	, <u>2014</u> .
Edward C. SHERER	Sherman Tim WADDELL
ACKNOWLEDGEMENT	
of	) ) S.S.: )
On this day of Sherman Tim WADDELL to me known,	, 20, personally appeared before me Edward C. SHERER, and and known by me to be the same person(s) described in and who executed ged that he (she) executed the same, of his (her) own free will for the purpose
(Seal)	
	Notary Public
Executed this day of	, <u>2014</u> .
Kartik M. KEERTIKAR	
ACKNOWLEDGEMENT	
of	) ) s.s.: )
On this day of me known, and known by me to be the sa	, 20, personally appeared before me Kartik M. KEERTIKAR, to ame person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)	
Executed this day of	Notary Public
H. Marie LOUGHRAN	•.
ACKNOWLEDGEMENT	
of	) s.s.:
On this day of known, and known by me to be the same	, 20, personally appeared before me H. Marie LOUGHRAN, to me person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.

Page 4 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010 PATENT

# REEL: 039471 FRAME: 0220

Worldwide Assignment (Seal) Notary Public Attorney Docket No. 23536 Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014. Jesse J. MANIKOWSKI ACKNOWLEDGEMENT \_\_\_\_\_ of \_\_\_\_\_ ) s.s.: County of On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me Jesse J. MANIKOWSKI, 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 \_\_\_\_\_\_, 2014, Jurgen SCHULZ ACKNOWLEDGEMENT \_\_\_\_\_) \_\_\_\_)s.s.: \_\_\_\_\_) County of On this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_, personally appeared before me Jurgen SCHULZ, 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 Catherine M. WISCOUNT ACKNOWLEDGEMENT \_\_\_\_of\_\_\_ \_) )s.s.: County of Lehigh On this  $3^{+}$  day of  $3^{-}$ ,  $20^{+}$ , personally appeared before me Catherine M. WISCOUNT, to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged for the purpose set forth. Notarial Seal (Seal) Ronald T. Rieker, Notary Public Lower Macungie Twp., Lehigh County mal T. WR My Commission Expires March 12, 2017 Page 5 of CEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Notary Public

Attorney Docket No. 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

Nicolas ZORN

WITNESSED BY

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me Nicolas ZORN, 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.

Witness #1

Witness #2

### Attorney Docket No.: 23536 WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Peter D. WILLIAMS, located at Harleysville, Pennsylvania 19438,
- (2) John A. MCCAULEY, located at Maple Glen, Pennsylvania, 19002,
- (3) David Jonathan BENNETT, located at Winchester, Massachusetts 01890,
- (4) Christopher J. BUNGARD, located at Lansdale, Pennsylvania 19446,
- (5) Lehua CHANG, located at Ramsey, New Jersey, 07446,
- (6) Michael P. DWYER, located at Scotch Plains, New Jersey, 07076,
- (7) M. Katharine HOLLOWAY, located at Lansdale, Pennsylvania 19446,
- (8) Kartik M. KEERTIKAR, located at East Windsor, New Jersey, 08520,
- (9) H. Marie LOUGHRAN, located at Perkasie, Pennsylvania, 18944,
- (10) Jesse J. MANIKOWSKI, located at Worcester, Pennsylvania 19403,
- (11) Gregori J. MORRIELLO, located at Randolph, New Jersey 07869,
- (12) Dong-Ming SHEN, located at Edison, New Jersey 08820,
- (13) Edward C. SHERER, located at Hillsborough, New Jersey 08844,
- (14) Jurgen SCHULZ, located at Motherwell, Scotland, NL15LE,
- (15) Sherman Tim WADDELL, located at Westfield, New Jersey 07090,
- (16) Catherine M. WISCOUNT, located at Allentown, Pennsylvania 18106, and
- (17) Nicolas ZORN, located at Durmenach, France, 68480

(hereinafter ASSIGNOR(S)), together with

- (18) Xin-Jie CHU, located at Shanghai, China,
- (19) Satyanarayana, TUMMANAPALLI, located at The Galen, Singapore,
- (20) Vijayasaradhi SIVALENKA, located at The Galen, Singapore,
- (21) Bin HU, located at, Shanghai, China,
- (22) Tao JI, located at Shanghai, China, and

(23) Bin ZHONG, 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:

### PIPERAZINE DERIVATIVES AS HIV PROTEASE INHIBITORS

and/or in the following application(s):

PCT International Application No.	PCT/CN12013/000899 having a filing	date of July 31	, 2013, an	ıd
PCT International Application No.				
US 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 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**,

Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

### Attorney Docket No.: 23536

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.

IWE 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 \_\_\_\_\_, 2014.

Peter D. WILLIAMS

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me Peter D. Williams, 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 \_\_\_\_\_, 2014.

John A. McCAULEY

Christopher J. BUNGARD

M. Katharine HOLLOWAY

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me John A. MCCAULEY, Christopher J. BUNGARD, and M. Katharine HOLLOWAY, 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)

Page 2 of 6

Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Notary Public

Attorney Docket No.: 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

David Jonathan BENNETT

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_, personally appeared before me David Jonathan BENNETT, 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		
Lehua CHANG		Michael P. DWYER	
Gregori J. MORRIELLO		Dong-Ming SHEN	
ACKNOWLEDGEMENT			
of County of	) ) s.s.: )		
DWYER, Gregori-J. MORRIELLO, and Dong-	Ming SHEN, to	onally appeared before me, Lehua CHANG, Mi o me known, and known by me to be the same p acknowledged that he (she) executed the same,	erson

(Seal)

Notary Public

Attorney Docket No. 23536

Executed this day of	., <u>2014</u> .
Edward C. SHERER	Sherman Tim WADDELL
ACKNOWLEDGEMENT	
of	)
of County of	) s.s.: )
Sherman Tim WADDELL to me known, and	, 20, personally appeared before me Edward C. SHERER, and known by me to be the same person(s) described in and who executed that he (she) executed the same, of his (her) own free will for the purpose
(Seal)	
	Notary Public
Executed this day of	, <u>2014</u> .
Kartik M. KEERTIKAR	
ACKNOWLEDGEMENT	;
of	)
County of	) s.s.; )
On this day of me known, and known by me to be the same acknowledged that he (she) executed the san	, 20, personally appeared before me Kartik M. KEERTIKAR, to person(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	-
H. Marie LOUGHRAN	
ACKNOWLEDGEMENT	
of	)
of County of	) s.s.: )
known, and known by me to be the same pers	, 20, personally appeared before me H. Marie LOUGHRAN, to me son(s) described in and who executed the foregoing instrument, and he, of his (her) own free will for the purpose set forth.

Page 4 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Worldwide Assignment	
(Seal)	
	Notary Public
	Attorney Docket No. 23536
Executed this day of	
Jesse J. MANIKOWSKI	
ACKNOWLEDGEMENT	
of	) ) s.s.:
On this day of me known, and known by me to be the s acknowledged that he (she) executed th (Seal)	, 20, personally appeared before me Jesse J. MANIKOWSKI, to same person(s) described in and who executed the foregoing instrument, and he same, of his (her) own free will for the purpose set forth.
	Notary Public
Executed this day of	<u>, 2014</u> .
Jurgen SCHULZ	
Witnessed by:	
known, and known by me to be the sam	e person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
Witness #1	Witness #2
Executed this day of	, <u>2014</u> .
Catherine M. WISCOUNT	
ACKNOWLEDGEMENT	
	)
of County of	) s.s.: )
On this day of to me known, and known by me to be the	, 20, personally appeared before me Catherine M. WISCOUNT, e same person(s) described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.

Notary Public

Notary Public Attorney Docket No. 23536

Executed this <u>28</u> day/of \_\_\_\_\_ <u>2014</u>. Nicolas ZORN 

WITNESSED BY

On this day of \_\_\_\_\_\_, 20 4, personally appeared before me Nicolas ZORN, 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.

Witness #1

Witness #2

### Attorney Docket No.: 23536 WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Peter D. WILLIAMS, located at Harleysville, Pennsylvania 19438,
- (2) John A. MCCAULEY, located at Maple Glen, Pennsylvania, 19002,
- (3) David Jonathan BENNETT, located at Winchester, Massachusetts 01890.
- (4) Christopher J. BUNGARD, located at Lansdale, Pennsylvania 19446,
- (5) Lehua CHANG, located at Ramsey, New Jersey, 07446,
- (6) Michael P. DWYER, located at Scotch Plains, New Jersey, 07076,
- (7) M. Katharine HOLLOWAY, located at Lansdale, Pennsylvania 19446.
- (8) Kartik M. KEERTIKAR, located at East Windsor, New Jersey, 08520,
- (9) H. Marie LOUGHRAN, located at Perkasie, Pennsylvania, 18944,
- (10) Jesse J. MANIKOWSKI, located at Worcester, Pennsylvania 19403,
- (11) Gregori J. MORRIELLO, located at Randolph, New Jersey 07869,
- (12) Dong-Ming SHEN, located at Edison, New Jersey 08820,
- (13) Edward C. SHERER, located at Hillsborough, New Jersey 08844,
- (14) Jurgen SCHULZ, located at Motherwell, Scotland, NL15LE,
- (15) Sherman Tim WADDELL, located at Westfield, New Jersey 07090,
- (16) Catherine M. WISCOUNT, located at Allentown, Pennsylvania 18106, and
- (17) Nicolas ZORN, located at Durmenach, France, 68480

(hereinafter ASSIGNOR(S)), together with

- (18) Xin-Jie CHU, located at Shanghai, China,
- (19) Satyanarayana, TUMMANAPALLI, located at The Galen, Singapore,
- (20) Vijayasaradhi SIVALENKA, located at The Galen, Singapore,
- (21) Bin HU, located at, Shanghai, China,
- (22) Tao JI, located at Shanghai, China, and

(23) Bin ZHONG, 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:

## PIPERAZINE DERIVATIVES AS HIV PROTEASE INHIBITORS

and/or in the following application(s):

PCT International Application No.	PCT/CN12013/000899 having a filing date of July 31, 2013, and
PUT International Application No.	having a filing date of
US 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,

Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

### Attorney Docket No.: 23536

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 \_\_\_\_\_\_, 2014.

Peter D. WILLIAMS

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me Peter D. Williams, 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 \_\_\_\_\_, 2014.

John A. McCAULEY

Christopher J. BUNGARD

REEL: 039471 FRAME: 0230

M. Katharine HOLLOWAY

ACKNOWLEDGEMENT

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

On this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, personally appeared before me John A. MCCAULEY, Christopher J. BUNGARD, and M. Katharine HOLLOWAY, 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.

Worldwide Assignment

Notary Public

Attorney Docket No.: 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014. David Jonathan BENNETT ACKNOWLEDGEMENT \_\_\_\_\_\_ of \_\_\_\_\_)
County of \_\_\_\_\_\_ ) s.s.: On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me David Jonathan BENNETT, 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\_\_\_\_\_, Lehua CHANG Michael P. DWYER Gregori J. MORRIELLO **Dong-Ming SHEN** ACKNOWLEDGEMENT \_\_\_\_\_ of \_\_\_\_\_) \_\_\_\_\_) s.s.: \_\_\_\_\_) County of\_\_\_\_\_ On this \_\_\_\_\_ day of \_\_\_ , 20\_\_\_\_, personally appeared before me, Lehua CHANG, Michael P. DWYER, Gregori J. MORRIELLO, and Dong-Ming SHEN, 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 3 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Attorney Docket No. 23536

REEL: 039471 FRAME: 0232

	Automicy Docket No. 23330
Executed this day of	<u>, 2014</u> .
Edward C. SHERER	
Luwalu C. SHEKEK	Sherman Tim WADDELL
ACKNOWLEDGEMENT	
of	);
of County of	) S.S.: )
On this day of Sherman Tim WADDELL to me know the foregoing instrument, and acknowle set forth.	, 20, personally appeared before me Edward C. SHERER, and /n, and known by me to be the same person(s) described in and who executed edged that he (she) executed the same, of his (her) own free will for the purpose
(Seal)	
	Notary Public
Executed this day of	2014
	, <u>2014</u> .
Kartik M. KEERTIKAR	
ACKNOWLEDGEMENT	
of	
of County of	) s.s.;
County of	)
me known, and known by me to be the	, 20, personally appeared before me Kartik M. KEERTIKAR, to same person(s) described in and who executed the foregoing instrument, and he same, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	· · · · · · · · · · · · · · · · · · ·
H. Marie LOUGHRAN	
ACKNOWLEDGEMENT	
of	) ) s.s.:
of County of	) S.S.( )
On this day of	, 20, personally appeared before me H. Marie LOUGHRAN, to me
acknowledged that he (she) executed th	e person(s) described in and who executed the foregoing instrument, and he same, of his (her) own free will for the purpose set forth.

Page 4 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010 PATENT

(Seal)

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Notary Public

Attorney Docket No. 23536

REEL: 039471 FRAME: 0233

Executed thisday of,	2014.	
Jung Mansfergio Jesse J. MANIKOWSKI	~	
ACKNOWLEDGEMENT		de la de ga
Commonwealth of Pennyaliania	. )	
Commonwellk of <u>Pennsylvania</u>	) s.s.:	
	, 20, personally appeared before me Jesse J erson(s) described in and who executed the foregoin e, of his (her) own free will for the purpose set forth.	. MANIKOWSKI, to ig instrument, and
NOTARIAL SEAL CARCL M. COVINGTON, NOTARY PUBLIC SOUTH WILLIAMSPORT BORO, LYCOMING COUNTY	Cauch M Commission	
MY COMMISSION EXPIRES MARCH 21, 2016	Notary Publics.	
Executed this day of,	<u>2014</u> .	
Jurgen SCHULZ		
ACKNOWLEDGEMENT		
of	) ) s.s.:	
County of	)	
known, and known by me to be the same perso	, 20, personally appeared before me Jurgen ( on(s) described in and who executed the foregoing in e, of his (her) own free will for the purpose set forth.	SCHULZ, to me strument, and
	Notary Public	
Executed this day of,	2 <u>014</u> .	
Catherine M. WISCOUNT		
ACKNOWLEDGEMENT		
of	_)	
of	) ) s.s.; )	
		ne M. WISCOUNT
to me known, and known by me to be the same acknowledged that he (she) executed the same (Seal)	, 20, personally appeared before me Catherin person(s) described in and who executed the foregree, of his (her) own free will for the purpose set forth.	bing instrument, and
Page 5 of 6		
Computer Generated Template "Assignment-Merck Sharp & Dohme. Multip	ble Assignées Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010	TENT

Notary Public

Attorney Docket No. 23536

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

Nicolas ZORN

WITNESSED BY

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me Nicolas ZORN, 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.

Witness #1

Witness #2

Page 6 of 6 Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

RECORDED: 07/26/2016