

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2909172

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
PETER PEIZHI LUO	01/06/2011
KEVIN CAILI WANG	10/29/2010
PINGYU ZHONG	02/21/2011
MARK HSIEH	10/29/2010
YAN LI	01/06/2011
XINWEI WANG	10/29/2010
FENG DONG	10/29/2010
ANDREI GOLOSOV	10/29/2010
YAN NI	12/20/2010
WEIRONG WANG	10/29/2010
LAURENCE B. PETERSON	01/10/2011
ROSE CUBBON	01/03/2011

**RECEIVING PARTY DATA**

<b>Name:</b>	MERCK SHARP & DOHME CORP.
<b>Street Address:</b>	126 EAST LINCOLN AVENUE
<b>City:</b>	RAHWAY
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07065

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13503726

**CORRESPONDENCE DATA**

Fax Number: (650)496-1200

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

Phone: 6504961183

Email: melanie.lyons@merck.com

Correspondent Name: MELANIE LYONS

Address Line 1: 901 S. CALIFORNIA AVE.

Address Line 4: PALO ALTO, CALIFORNIA 94304

**PATENT**

<b>ATTORNEY DOCKET NUMBER:</b>	MRL-ACV-00028-US-PCT
<b>NAME OF SUBMITTER:</b>	MELANIE LYONS
<b>SIGNATURE:</b>	/Melanie Lyons/
<b>DATE SIGNED:</b>	06/23/2014

**Total Attachments: 29**

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**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE,

- (1) Peter Peizhi Luo, located at Lansdale, PA,
- (2) Kevin Caili Wang, located at Lansdale, PA,
- (3) Pingyu Zhong, located at Blue Bell, PA,
- (4) Mark Hsieh, located at Jenkintown, PA,
- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
- (9) Yan Ni, located at Westfield, NJ
- (10) Weirong Wang, located at Harleysville, PA,
- (11) Laurence B. Peterson, located at Westfield, NJ
- (12) Rose Cubbon, located at Fanwood, NJ

(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:

**AX1 AND AX189 PCSK9 ANTAGONISTS AND VARIANTS**

and in the following application(s):

U.S. Provisional Application Nos. 61/323,117 and 61/256,720 filed on April 12, 2010 and October 30, 2009, respectively;

U.S. Application No. 13/503,726 having a filing date of 4-24-2012; and  
PCT International Application No. 865/US10/54640 having a filing date of 10/29/2010.

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 29 day of October, 2010.

[Signature]  
\_\_\_\_\_  
KEVIN CAILI WANG

[Signature]  
\_\_\_\_\_  
MARK HSIEH

[Signature]  
\_\_\_\_\_  
XINWEI WANG

[Signature]  
\_\_\_\_\_  
FENG DONG

[Signature]  
\_\_\_\_\_  
ANDREI GOLOSOV

[Signature]  
\_\_\_\_\_  
WEIRONG WANG

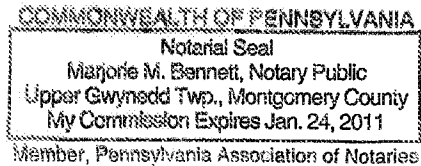
**ACKNOWLEDGEMENT**

Commonwealth of PA )  
County of Montgomery ) s.s.:

On this 29 day of October, 2010, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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)

[Signature]  
\_\_\_\_\_  
Notary Public



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

\_\_\_\_\_  
PINGYU ZHONG

**ACKNOWLEDGEMENT**

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

On this \_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Pingyu Zhong 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\_\_.

\_\_\_\_\_  
PETER PEIZHI LUO

ACKNOWLEDGEMENT

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Peter Peizhi Luo 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\_\_.

\_\_\_\_\_  
YAN LI

ACKNOWLEDGEMENT

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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\_\_.

\_\_\_\_\_  
YAN NI

ACKNOWLEDGEMENT

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Ni 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\_\_.

\_\_\_\_\_  
LAURENCE B. PETERSON

ACKNOWLEDGEMENT

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Laurence B. Peterson 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\_\_.

\_\_\_\_\_  
ROSE CUBBON

ACKNOWLEDGEMENT

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Rose Cubbon 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) Peter Peizhi Luo, located at Lansdale, PA,
- (2) Kevin Caili Wang, located at Lansdale, PA,
- (3) Pingyu Zhong, located at Blue Bell, PA,
- (4) Mark Hsieh, located at Jenkintown, PA,
- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
- (9) Yan Ni, located at Westfield, NJ
- (10) Weirong Wang, located at Harleysville, PA,
- (11) Laurence B. Peterson, located at Westfield, NJ
- (12) Rose Cubbon, located at Fanwood, NJ

(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:

**AX1 AND AX189 PCSK9 ANTAGONISTS AND VARIANTS**

and in the following application(s):

U.S. Provisional Application Nos. 61/323,117 and 61/256,720 filed on April 12, 2010 and October 30, 2009, respectively;

U.S. Application No. 13/503,726 having a filing date of 4-24-2012; and  
PCT International Application No. PCT/US10/54640 having a filing date of 10-29-2010.

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\_\_.

\_\_\_\_\_  
KEVIN CAILI WANG

\_\_\_\_\_  
MARK HSIEH

\_\_\_\_\_  
XINWEI WANG

\_\_\_\_\_  
FENG DONG

\_\_\_\_\_  
ANDREI GOLOSOV

\_\_\_\_\_  
WEIRONG WANG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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 21 day of Feb, 2011.

*[Handwritten Signature]*

\_\_\_\_\_  
PINGYU ZHONG

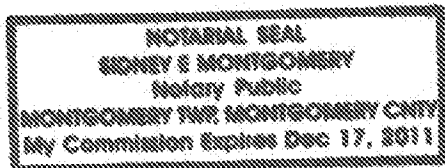
**ACKNOWLEDGEMENT**

State of Pennsylvania )  
County of Montgomery ) s.s.:

On this 22 day of February, 2011, personally appeared before me Pingyu Zhong 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)

*[Handwritten Signature]*  
\_\_\_\_\_  
Notary Public





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

\_\_\_\_\_  
PETER PEIZHI LUO

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Peter Peizhi Luo 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\_\_.

\_\_\_\_\_  
YAN LI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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\_\_.

\_\_\_\_\_  
YAN NI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Ni 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\_\_.

\_\_\_\_\_  
LAURENCE B. PETERSON

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Laurence B. Peterson 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\_\_.

\_\_\_\_\_  
ROSE CUBBON

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Rose Cubbon 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,

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- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
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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\_\_.

\_\_\_\_\_  
KEVIN CAILI WANG

\_\_\_\_\_  
MARK HSIEH

\_\_\_\_\_  
XINWEI WANG

\_\_\_\_\_  
FENG DONG

\_\_\_\_\_  
ANDREI GOLOSOV

\_\_\_\_\_  
WEIRONG WANG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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\_\_.

\_\_\_\_\_  
PINGYU ZHONG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Pingyu Zhong** 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 06<sup>th</sup> day of January, 2011.

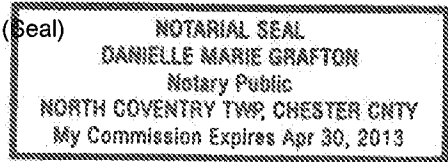
*[Handwritten Signature]*

PETER PEIZHI LUO

**ACKNOWLEDGEMENT**

Danielle Marie Grafton of Pennsylvania  
County of Chester ) s.s.:  
)

On this 6<sup>th</sup> day of January, 2011, personally appeared before me Peter Peizhi Luo 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.



Danielle Marie Grafton  
Notary Public

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

\_\_\_\_\_  
YAN LI

**ACKNOWLEDGEMENT**

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

On this \_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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\_\_.

\_\_\_\_\_  
YAN NI

**ACKNOWLEDGEMENT**

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

On this \_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Ni 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\_\_.

\_\_\_\_\_  
**LAURENCE B. PETERSON**

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Laurence B. Peterson 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\_\_.

\_\_\_\_\_  
**ROSE CUBBON**

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Rose Cubbon 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) Peter Peizhi Luo, located at Lansdale, PA,
- (2) Kevin Caili Wang, located at Lansdale, PA,
- (3) Pingyu Zhong, located at Blue Bell, PA,
- (4) Mark Hsieh, located at Jenkintown, PA,
- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
- (9) Yan Ni, located at Westfield, NJ
- (10) Weirong Wang, located at Harleysville, PA,
- (11) Laurence B. Peterson, located at Westfield, NJ
- (12) Rose Cubbon, located at Fanwood, NJ

(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:

**AX1 AND AX189 PCSK9 ANTAGONISTS AND VARIANTS**

and in the following application(s):

U.S. Provisional Application Nos. 61/323,117 and 61/256,720 filed on April 12, 2010 and October 30, 2009, respectively;

U.S. Application No. 13/503,726 having a filing date of 4-24-2012; and  
PCT International Application No. PCT/US10/54640 having a filing date of 10-29-2010.

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\_\_.

\_\_\_\_\_  
KEVIN CAILI WANG

\_\_\_\_\_  
MARK HSIEH

\_\_\_\_\_  
XINWEI WANG

\_\_\_\_\_  
FENG DONG

\_\_\_\_\_  
ANDREI GOLOSOV

\_\_\_\_\_  
WEIRONG WANG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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\_\_.

\_\_\_\_\_  
PINGYU ZHONG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Pingyu Zhong 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\_\_.

\_\_\_\_\_  
PETER PEIZHI LUO

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Peter Peizhi Luo 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 6th day of Jan, 2011.

[Signature]  
\_\_\_\_\_  
YAN LI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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

*For Notary  
pl. see the  
attached  
CA-STATE  
form  
MP88wh  
01-06-11*

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

\_\_\_\_\_  
YAN NI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Ni 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

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Santa Clara

On 01-06-2011 before me, Mahendra B. Shah, Notary Public-----  
(Here insert name and title of the officer)

Personally appeared Yan Li-----

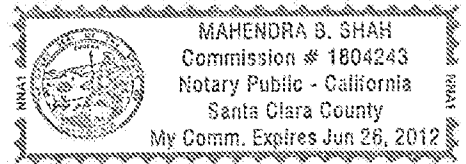
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is / are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his / her / their authorized capacity(ies), and that by his / her / their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

M B Shah  
Signature of Notary Public

(Notary Seal)



## ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT
<u>Worldwide Assignments</u> (Title or description of attached document)
_____ (Title or description of attached document continued)
Number of Pages <u>10</u> Document Date <u>    </u>
_____ (Additional Information)

CAPACITY CLAIMED BY THE SIGNER
<input checked="" type="checkbox"/> Individual (s)
<input type="checkbox"/> Corporate Officer
_____ (Title)
<input type="checkbox"/> Partner(s)
<input type="checkbox"/> Attorney-in-Fact
<input type="checkbox"/> Trustee(s)
<input type="checkbox"/> Other _____

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

\_\_\_\_\_  
LAURENCE B. PETERSON

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Laurence B. Peterson 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\_\_.

\_\_\_\_\_  
ROSE CUBBON

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Rose Cubbon 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) Peter Peizhi Luo, located at Lansdale, PA,
- (2) Kevin Caili Wang, located at Lansdale, PA,
- (3) Pingyu Zhong, located at Blue Bell, PA,
- (4) Mark Hsieh, located at Jenkintown, PA,
- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
- (9) Yan Ni, located at Westfield, NJ
- (10) Weirong Wang, located at Harleysville, PA,
- (11) Laurence B. Peterson, located at Westfield, NJ
- (12) Rose Cubbon, located at Fanwood, NJ

(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:

**AX1 AND AX189 PCSK9 ANTAGONISTS AND VARIANTS**

and in the following application(s):

U.S. Provisional Application Nos. 61/323,117 and 61/256,720 filed on April 12, 2010 and October 30, 2009, respectively;

U.S. Application No. 13/503,726 having a filing date of 4-24-2012; and  
PCT International Application No. PCT/US10/24640 having a filing date of 10-28-2010.

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\_\_.

\_\_\_\_\_  
KEVIN CAILI WANG

\_\_\_\_\_  
MARK HSIEH

\_\_\_\_\_  
XINWEI WANG

\_\_\_\_\_  
FENG DONG

\_\_\_\_\_  
ANDREI GOLOSOV

\_\_\_\_\_  
WEIRONG WANG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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\_\_.

\_\_\_\_\_  
PINGYU ZHONG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Pingyu Zhong** 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\_\_.

\_\_\_\_\_  
PETER PEIZHI LUO

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Peter Peizhi Luo 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\_\_.

\_\_\_\_\_  
YAN LI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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 20 day of December, 2010.

[Signature]  
\_\_\_\_\_  
YAN NI

**ACKNOWLEDGEMENT**

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

On this 20 day of December, 2010, personally appeared before me Yan Ni 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)

Theresa Schiffman  
Notary Public of New Jersey  
My Commission Expires May 6, 2012  
[Signature]  
Notary Public

Worldwide Assignment

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

\_\_\_\_\_  
**LAURENCE B. PETERSON**

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Laurence B. Peterson 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\_\_.

\_\_\_\_\_  
**ROSE CUBBON**

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Rose Cubbon 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) Peter Peizhi Luo, located at Lansdale, PA,
- (2) Kevin Caili Wang, located at Lansdale, PA,
- (3) Pingyu Zhong, located at Blue Bell, PA,
- (4) Mark Hsieh, located at Jenkintown, PA,
- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
- (9) Yan Ni, located at Westfield, NJ
- (10) Weirong Wang, located at Harleysville, PA,
- (11) Laurence B. Peterson, located at Westfield, NJ
- (12) Rose Cubbon, located at Fanwood, NJ

(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:

**AX1 AND AX189 PCSK9 ANTAGONISTS AND VARIANTS**

and in the following application(s):

U.S. Provisional Application Nos. 61/323,117 and 61/256,720 filed on April 12, 2010 and October 30, 2009, respectively;

U.S. Application No. 13/503,726 having a filing date of 4-24-2012; and  
PCT International Application No. PCT/US10/54640 having a filing date of 10-29-2010.

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\_\_.

\_\_\_\_\_  
KEVIN CAILI WANG

\_\_\_\_\_  
MARK HSIEH

\_\_\_\_\_  
XINWEI WANG

\_\_\_\_\_  
FENG DONG

\_\_\_\_\_  
ANDREI GOLOSOV

\_\_\_\_\_  
WEIRONG WANG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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\_\_.

\_\_\_\_\_  
PINGYU ZHONG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Pingyu Zhong 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\_\_.

\_\_\_\_\_  
PETER PEIZHI LUO

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Peter Peizhi Luo 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\_\_.

\_\_\_\_\_  
YAN LI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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\_\_.

\_\_\_\_\_  
YAN NI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Ni 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 10 day of January, 2011.

Laurence B. Peterson  
LAURENCE B. PETERSON

ACKNOWLEDGEMENT

State NJ of NJ )  
County of Essex ) s.s.:

On this 10 day of January, 2011, personally appeared before me Laurence B. Peterson 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)

Elizabeth H. Ennis  
Notary Public

ELIZABETH H. ENNIS  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires March 1, 2014

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

\_\_\_\_\_  
ROSE CUBBON

ACKNOWLEDGEMENT

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Rose Cubbon 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) Peter Peizhi Luo, located at Lansdale, PA,
- (2) Kevin Caili Wang, located at Lansdale, PA,
- (3) Pingyu Zhong, located at Blue Bell, PA,
- (4) Mark Hsieh, located at Jenkintown, PA,
- (5) Yan Li, located at San Jose, CA,
- (6) Xinwei Wang, located at Ambler, PA,
- (7) Feng Dong, located at Lansdale, PA,
- (8) Andrei Golosov, located at Lansdale, PA,
- (9) Yan Ni, located at Westfield, NJ
- (10) Weirong Wang, located at Harleysville, PA,
- (11) Laurence B. Peterson, located at Westfield, NJ
- (12) Rose Cubbon, located at Fanwood, NJ

(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:

**AX1 AND AX189 PCSK9 ANTAGONISTS AND VARIANTS**

and in the following application(s):

U.S. Provisional Application Nos. 61/323,117 and 61/256,720 filed on April 12, 2010 and October 30, 2009, respectively;  
U.S. Application No. 13/503,726 having a filing date of 4/24/2012; and  
PCT International Application No. PCT/US10/54640 having a filing date of 10/29/2010.

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\_\_.

\_\_\_\_\_  
KEVIN CAILI WANG

\_\_\_\_\_  
MARK HSIEH

\_\_\_\_\_  
XINWEI WANG

\_\_\_\_\_  
FENG DONG

\_\_\_\_\_  
ANDREI GOLOSOV

\_\_\_\_\_  
WEIRONG WANG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Kevin Caili Wang, Mark Hsieh, Xinwei Wang, Feng Dong, Andrei Golosov, Weirong Wang** 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\_\_.

\_\_\_\_\_  
PINGYU ZHONG

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Pingyu Zhong 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\_\_.

\_\_\_\_\_  
PETER PEIZHI LUO

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Peter Peizhi Luo 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\_\_.

\_\_\_\_\_  
YAN LI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Li 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\_\_.

\_\_\_\_\_  
YAN NI

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Yan Ni 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\_\_.

\_\_\_\_\_  
LAURENCE B. PETERSON

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me Laurence B. Peterson 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 3<sup>rd</sup> day of January, 2011.

Rose Cubbon  
\_\_\_\_\_  
ROSE CUBBON

**ACKNOWLEDGEMENT**

State of NJ )  
County of Essex ) s.s.:

On this 3 day of January, 2011, personally appeared before me Rose Cubbon 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)

Elizabeth H. Ennis  
\_\_\_\_\_  
Notary Public

ELIZABETH H. ENNIS  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires March 1, 2014