503871615 06/15/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3918264

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD BERGER	11/05/2014
TIMOTHY A. BLIZZARD	10/31/2014
BRIAN T. CAMPBELL	11/05/2014
HELEN Y. CHEN	11/10/2014
JOHN S. DEBENHAM	11/10/2014
SUNITA V. DEWNANI	11/19/2014
BYRON DUBOIS	12/05/2014
CANDIDO GUDE	11/01/2014
ZHIQIANG GUO	11/03/2014
BART HARPER	11/03/2014
ZHIYONG HU	11/10/2014
SONGNIAN LIN	11/10/2014
PING LIU	11/03/2014
MING WANG	11/03/2014
FEROZE UJJAINWALLA	11/10/2014
JIAYI XU	11/03/2014
LIBO XU	11/03/2014
RUI ZHANG	10/31/2014

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE
Internal Address:	RY86-2011A
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15104537

PATENT REEL: 039023 FRAME: 0001

503871615

CORRESPONDENCE DATA

Fax Number: (732)594-4720

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: 732 594-4000

Email: us_efs@merck.com

Correspondent Name: MERCK & CO., INC.

Address Line 1: P. O. BOX 2000

Address Line 2: PY86-2011A

Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	23722-US-PCT
NAME OF SUBMITTER:	PAMELA SPALDING
SIGNATURE:	/Pamela Spalding/
DATE SIGNED:	06/15/2016

Total Attachments: 70

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> PATENT REEL: 039023 FRAME: 0002

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PATENT REEL: 039023 FRAME: 0003

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ(3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No.	61/931,005	filed on	01/24/2014
----------------------------------	------------	----------	------------

U.S. Application No. __15/104, 537 having a filing date of 6/15/2016 PCT International Application No. PCT/US2015/011939 having a filing date of 1/20/2015

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance. and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter ASSIGNEE), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize ASSIGNEE to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

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

Executed this	day of		, 20				
Richard Berger		VI II.					
ACKNOWLEDGEME	NT						
Commonwealth of Pe)) s.s.:				-	
County of Montgome	ry)					
On this me known, and know acknowledged that he	day of n by me to be the e (she) executed	ie same perso I the same, of	n(s) described his (her) own	, personally I in and who ex free will for the	appeared befor secuted the fore purpose set for	re me Richard Berge l going instrument, and rth.	r to
(Seal)							
				Notary Pub	olic		
Executed this	day of		, 20_	·			
Timothy A. Blizzard			_				
ACKNOWLEDGEME	ENT						
State of New Jersey)) s.s.:						
County of Mercer)						
On this Blizzard to me know instrument, and ackn	day of n, and known by owledged that h	me to be the e (she) execu	, 20 same person ited the same,	, personall described in ar of his (her) ow	ly appeared befo nd who execute on free will for th	ore me Timothy A. d the foregoing e purpose set forth.	
(Seal)							
				Notary Pub	olic		

•	
Executed this day of	, 20
Marie M. Oureshall	
Brian T. Campbell	
ACKNOWLEDGEMENT	
State of New Jersey)) s.s.: County of Burlington)	
) s.s.: County of Burlington)	
to me known, and known by me to be the same p	, 20, personally appeared before me Brian T. Campbell person(s) described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
	Notally Fublic
Executed this 10th day of Novem	Kin was the
•	,
Johlen Chen	
Helen Y. Chen	
neteri i. Giren	
ACKNOWLEDGEMENT	
State of New Jersey)	
) s.s.:	
County of Union)	
County of Union) s.s.: On this 10^{+h} day of $Noverok$	<u>িংল</u> , 20 <u>াখ</u> , personally appeared before me Helen Y. Chen to
me known, and known by me to be the same per	rson 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)	$12.0 c c_0 d$
	TONG CONTINUE CONTINUE CONTINUE
	Notary Public PAMELA 3. SPALDING Notary Public, State of New Jersey
	81 MACOMBISSIOGENEOUS 1
	January 06, 2019

Page 3 of 10

Page 3 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 119470TENT

Executed this 10th da	y of November, 2014
John S. Debenham	
ACKNOWLEDGEMENT	
State of New Jersey)) s.s.:
County of Union	
On this 10+10 Debenham to me known, instrument, and acknowled	day of November, 20 4, personally appeared before me John S . and known by me to be the same person(s) described in and who executed the foregoing dged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)	
V. and V.	1 COLL G S COLLAND MAN AND AND AND AND AND AND AND AND AND A
	Notary Public PAMELAS) SPALDING Notary Public, State of New Jersey My Commission Expires
	My Commission Expires
	January 06, 2019
for a second and shade	day of , 20
Executed this	day of, 20,
Sunita V. Dewnani	
ACKNOWLEDGEMENT	
State of New Jersey	
· · · · · · · · · · · · · · · ·) s.s.:
County of Hudson)
On this	day of, 20, personally appeared before me Sunita V . nd known by me to be the same person described in and who executed the foregoing dged 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
Byron DuBois		
ACKNOWLEDGEME	NT	
State of New York)	
County of New York) s.s.:)	
On this me known, and know	day of n by me to be the sa	, 20, personally appeared before me Byron DuBois to me person(s) described in and who executed the foregoing instrument, and
acknowledged that he	e (she) executed the	same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Candido Gude		
ACKNOWLEDGEME	NT	
State of New York)) s.s.:	
County of Richmond)	
On this	day of n by me to be the sa	, 20, personally appeared before me Candido Gude to me person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
achiowieugeu triat lie	s (ane) executed the	same, or ms (ner) own nee will for the purpose set forth.
(Seal)		
		Notary Public

Executed this 3rd day of November, 2014.
Zhiqiang Guo
ACKNOWLEDGEMENT
State of New Jersey)
County of Union) s.s.:
On this day of 100000000000000000000000000000000000
(Seal) Panela S. Spalding Notary Public
PAMELA S. SPALDING Notary Public, State of New Jersey My Commission Expires January 06, 2019
Executed this 3rd day of November, 2014.
Bart Harper
ACKNOWLEDGEMENT
State of New Jersey)
County of Union) s.s.:
On this day of November, 2014, personally appeared before me Bart Harper 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 PAMELA'S, SPALDING Notary Public, State of New Jersey My Commission Expires
January 06, 2019

Page 6 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2018
PATENT

Executed this 10 ^{+h} day of 100000000000000000000000000000000000	<u> 2014</u> .
Zhiyong Hu	
ACKNOWLEDGEMENT	
State of New Jersey)	
County of Union) s.s.:	
known, and known by me to be the same perso	, 20 1 \(\frac{1}{2} \), personally appeared before me Zhiyong Hu to me n(s) described in and who executed the foregoing instrument, and , of his (her) own free will for the purpose set forth.
(Seal)	Panelos Souldon
	Notary Public
	PAMELAS, SPALDING Notary Public, State of New Jerse My Commission Expires January 06, 2019
Executed this 10th day of 110ver	<u>Der</u> , 20 14.
Songnian Lin	·
ACKNOWLEDGEMENT	
State of New Jersey)	
County of Union) s.s.:	•
	personally appeared before me Songnian Lin to erson described in and who executed the foregoing instrument, and for the foregoing instrument, and for the purpose set forth.
	enter.
(Seal)	Homela sispoldin
	Notary Public PAMELA S. SPALVING PAMELA S. SPALVING
	Notary Public, State of New Jersey My Commission Expires January 86, 2819

Page 7 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme Corp. 1774/05/TENT

Executed this <u>3rd</u> day of <u>November</u> , 2014.
Ping Litt
ACKNOWLEDGEMENT
State of New Jersey) s.s.: County of Union) On this day of November 20 14 personally appeared before me Ping Liu 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 PAMELA S. SPALDING Notary Public, State of New Jersey My Commission Expires January 06, 2019
Executed this 3-d day of November 2014. Ming Wang
State of New Jersey) s.s.; County of Union On this 3rd day of New 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 PAMELA S. SPANDING Notary Public, State of New Jersey My Commission Expires January 86, 2019

Page 8 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT

Executed this 10th day of November, 2014
Town Minimum Comments
Ferože Ujjainwalla
ACKNOWLEDGEMENT
State of New Jersey)) s.s.:
County of Union)
On this 1046 day of 1000 day of 2014, personally appeared before me Feroze Ujjainwalla 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 PAMELA S. SPALDING PAMELA S. SPALDING PAMELA S. SPALDING
PAMELA S. SPALDING Notary Public, State of New Jersey Notary Public, State of New Jersey My Commission Expires My Commission Expires January 06, 2019
Executed this 3-d day of November , 2014
The state of the s
Jiayi Xu
ACKNOWLEDGEMENT
State of New Jersey)
County of Union) s.s.:
On this <u>3rd</u> day of <u>1000000000000000000000000000000000000</u>
(Seal) Tamela S. Spalanamannamannamannamannamannamannamann
Notary Public * PAMELA \$\ SPALDING Notary Public, State of New Jer My Commission Expires January 06, 2019
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Page 9 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2017 ENT

Executed this 3 d	ay of November, 2014.	
Libo Xu		
ACKNOWLEDGEMENT		
known, and known by me)) s.s.:) day of \(\lambda \cdot	
(Seal)	Notary Public PAMELA S. SPALDING Notary Public, State of New Jer My Commission Expires January 06, 2019	8.0
Executed this	day of, 20	***
Rui Zhang		
ACKNOWLEDGEMENT		
State of New Jersey County of Middlesex) s.s.;)	
On this known, and known by me acknowledged that he (sh	day of, 20, personally appeared before me Rui Zhang to me to be the same person described in and who executed the foregoing instrument, and e) executed the same, of his (her) own free will for the purpose set forth.	
(Seal)		
	Notary Public	

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ
- (3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 61/931,005 filed on 01/24/2014;

U.S. Application No. 15/104,537 having a filing date of 6/15/2016; and PCT International Application No. 15/104,537 having a filing date of 1/20/2015

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

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

Executed this 5th day of 1010 and 2014.
Ridhard Berger
ACKNOWLEDGEMENT
Commonwealth of Pennsylvania) s.s.: County of Montgomery)
On this
(Seal) Mayrin holened
COMMONWERTH POP WENNSYLVANIA Notarial Seal
Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015
MEMBER, PENNSYLVANIA ASSIXTATION OF NOTARIES
Executed this day of, 20
Timothy A. Blizzard
ACKNOWLEDGEMENT
State of New Jersey)
County of Mercer) s.s.:
On thisday of, 20, personally appeared before me Timothy A. Blizzard 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 5 day of 1000 day	22 20 14
	Brian T. Campbell	
Comm	to me known, and known by me to be the same t	ر کیکے , 20 / بر personally appeared before me Brian T. Campbell person(s) described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
	(Seal)	Notary Public COMMONWEALTH OF PENNSYLVANIA
		Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER, PENNSYLVANIA ASSISSIATION OF MOTARIES.
	Executed this day of	, 20
	Helen Y. Chen	
	ACKNOWLEDGEMENT	
	State of New Jersey)) s.s.:	
	County of Union)	
	me known, and known by me to be the same pe	, 20, personally appeared before me Helen Y. Chen to rson described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
	(Seal)	
		Notary Public

Page 3 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme, Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme, Corp.

PATENT

Executed this da	ay of	, 20
John S. Debenham		
ACKNOWLEDGEMENT		
State of New Jersey County of Union)) s.s.:)	
Debenham to me known	, and known by me to b	, 20, personally appeared before me John S. e the same person(s) described in and who executed the foregoing cuted the same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	_day of	, 20
Sunita V. Dewnani		
ACKNOWLEDGEMENT		
State of New Jersey County of Hudson)) s.s.:)	
On this Dewnani to me known, a	and known by me to be	, 20, personally appeared before me Sunita V . the same person described in and who executed the foregoing ecuted the same, of his (her) own free will for the purpose set forth.
(Seal)		Notary Public

Page 4 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1 PATENT

Executed this	_ day of	, 20
Byron DuBois		
ACKNOWLEDGEME	NT	
State of New York County of New York)) s.s.:	
On this me known, and known acknowledged that he	day of n by me to be the sa e (she) executed the	, 20, personally appeared before me Byron DuBois to ame person(s) described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Candido Gude	7.10	
ACKNOWLEDGEME	NT	
State of New York)	
County of Richmond) s.s.:)	
On this me known, and know acknowledged that he	day of n by me to be the s e (she) executed the	, 20, personally appeared before me Candido Gude to ame person described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	day of	, 20	
Zhiqiang Guo			
ACKNOWLEDGEME	NT		
State of New Jersey County of Union)) s.s.:		
	,		
On this me known, and know acknowledged that he	day of n by me to be the secuted the	, 20, personners are person(s) described in and e same, of his (her) own free will	sonally appeared before me Zhiqiang Guo to who executed the foregoing instrument, and for the purpose set forth.
(Seal)			
		Nota	ary Public
Executed this	day of	, 20	
Bart Harper			
ACKNOWLEDGEME	:NT		
State of New Jersey)) s.s.:		
County of Union)		
On this me known, and know acknowledged that he	day of n by me to be the s e (she) executed th	, 20, pe same person described in and wh e same, of his (her) own free will	rsonally appeared before me Bart Harper to no executed the foregoing instrument, and for the purpose set forth.
(Seal)			
		Note	arv Public

Executed this	day of	, 20
Zhiyong Hu		
Ziliyolig Hu		
ACKNOWLEDGEME	INI	
State of New Jersey)) s.s.:	
County of Union)	
On this known, and known by acknowledged that he	day of me to be the same pe (she) executed the s	, 20, personally appeared before me Zhiyong Hu to merson(s) described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth.
adminimaged that m		
(Seal)		
		Notary Public
		· · · · · · · · · · · · · · · · · · ·
Executed this	day of	, 20
		7
Songnian Lin		
ACKNOWLEDGEME	ENT	
State of New Jersey)) s.s.:	
County of Union)	
On this	day of	, 20, personally appeared before me Songnian Lin the person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
acknowledged that he	e (sne) executed the s	anie, of his (her) own nee will for the purpose section.
(C = =1)		
(Seal)		
		Notary Public

Page 7 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1994 PATENT

Executed this	day of	, 20	
Ping Liu			
ACKNOWLEDGEME	NT		
State of New Jersey)) s.s.:)		
County of Union			
On this known, and known by acknowledged that he	day of me to be the same e (she) executed the	, 20, personally appeared before me Ping Liu person(s) described in and who executed the foregoing instrument, a same, of his (her) own free will for the purpose set forth.	to me nd
(Seal)			
		Notary Public	
Executed this	day of	, 20	
Ming Wang	A MANAGEMENT OF THE STATE OF TH		
ACKNOWLEDGEME	ENT		
State of New Jersey)) s.s.:		
County of Union)		
On this me known, and know acknowledged that he	day of n by me to be the sa e (she) executed the	, 20, personally appeared before me Ming W me person described in and who executed the foregoing instrument, same, of his (her) own free will for the purpose set forth.	ang to and
(Seal)			
		Notary Public	

Page 8 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1704/2015 ENT

Executed this	day of	, 20
Feroze Ujjainwalla		<u></u>
ACKNOWLEDGEME		
State of New Jersey)) s.s.:)	
County of Union		
On this Ujjainwalla to me kn instrument, and ackn	day of own, and known by owledged that he (sl	, 20, personally appeared before me Feroze me to be the same person(s) described in and who executed the foregoing he) executed the same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
		Notally F dono
Executed this	day of	, 20
Jiayi Xu		
ACKNOWLEDGEME	ENT	
State of New Jersey)) s.s.:	
County of Union	ý	
On this known, and known by acknowledged that h	day of y me to be the same e (she) executed the	, 20, personally appeared before me Jiayi Xu to me person described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	_ day of	, 20
Libo Xu		
ACKNOWLEDGEME	NT	
State of New Jersey)	
State of New Jersey County of Union) s.s.:)	
On this known, and known by acknowledged that he	day of me to be the same p (she) executed the s	, 20, personally appeared before me Libo Xu to me erson(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(2002)		
(Seal)		Notary Public
		Hotely Fubile
Executed this	day of	, 20
Rui Zhang		
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:	
County of Middlesex) 3.3	
On this known, and known by acknowledged that he	day of day of me to be the same pe (she) executed the s	, 20, personally appeared before me Rui Zhang to me berson described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ
- (3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No	61/931,005	filed on	01/24/2014;
---------------------------------	------------	----------	-------------

U.S. Application No.	15/104,537	having	a filing date of6/15/2	; and
PCT International App	olication No. PCT/US	32015/011939	having a filing date of	f 1/20/2015 .

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

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

Executed this day of	, 20
Richard Berger	
ACKNOWLEDGEMENT	
Commonwealth of Pennsylvania) s.s.:	
County of Montgomery)	
me known, and known by me to be the same pe	, 20, personally appeared before me Richard Berger erson(s) described in and who executed the foregoing instrument, and e, of his (her) own free will for the purpose set forth.
(Seal)	Notary Public
Executed this 31 ^{S1} day of Octob	er ,20 <u>14</u> .
Executed this 31st day of Octob Timothy A. Blizzard	
ACKNOWLEDGEMENT	
State of New Jersey)) s.s.: County of Mercer)	
Blizzard to me known, and known by me to be	, 20 1), personally appeared before me Timothy A . In the same person described in and who executed the foregoing secuted the same, of his (her) own free will for the purpose set forth.
Seal) RYAN FITZGERALD Notary Public State of New Jersey My Commission Expires Mar. 8, 2018 I.D.# 2430984	Notary Public

REEL: 039023 FRAME: 0025

to

Executed this	day of	, 20		
Brian T. Campbell				
ACKNOWLEDGEMEN	т			
State of New Jersey County of Burlington)) s.s.:			
On this to me known, and know	vn by me to be the sa	ame person(s) described in	ersonally appeared before me and who executed the forego vill for the purpose set forth.	e Brian T. Campbell ing instrument, and
(Seal)		N	otary Public	
Executed this	day of	, 20	<u>.</u>	
Helen Y. Chen		AM A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
ACKNOWLEDGEMEN	ΙΤ			
State of New Jersey County of Union)) s.s.:)			
me known, and known	by me to be the sam	e person described in and	personally appeared before n who executed the foregoing in will for the purpose set forth.	ne Helen Y. Chen to nstrument, and
(Seal)			,	
		N	otary Public	

Page 3 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2014 ENT

Executed this d	ay of	, 20	
John S. Debenham			
ACKNOWLEDGEMENT			
State of New Jersey)		
State of New Jersey County of Union) s.s.:)		
On this	day of	, 20	_, personally appeared before me John S. n(s) described in and who executed the foregoing
instrument, and acknowle	edged that he (she) execute	d the same, of	f his (her) own free will for the purpose set forth.
(Seal)			
			Notary Public
Executed this	_day of	20	
Executed this	_ day or	, 20	 ·
Sunita V. Dewnani			
ACKNOWLEDGEMENT			
State of New Jersey)) s.s.:		
County of Hudson)		
On this Dewnani to me known, a	day of and known by me to be the s	, 20 same person c	, personally appeared before me Sunita V. described in and who executed the foregoing
instrument, and acknowle	edged that he (she) execute	d the same, o	f his (her) own free will for the purpose set forth.
40			
(Seal)	_		
			Notary Public

Page 4 of 10

Page 4 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT

Executed this	day of	, 20
Byron DuBois		<u> </u>
ACKNOWLEDGEME	NT	
State of New York County of New York)) s.s.:	
On this	day of n by me to be the s	, 20, personally appeared before me Byron DuBois to 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.
(Seal)		
		Notary Public
Executed this	day of	, 20
Candido Gude	-10.17-40-01	
ACKNOWLEDGEME	ENT	
State of New York)) s.s.:	
County of Richmond) 8.8	
On this me known, and know acknowledged that h	day of n by me to be the se (she) executed the	, 20, personally appeared before me Candido Gude to same person described in and who executed the foregoing instrument, and ne same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Page 5 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 12042011 ENT

Executed this	day of	, 20
Zhiqiang Guo		
Zinqiang oao		
ACKNOW! EDGEM	IENT	
ACKNOWLEDGEM		
State of New Jersey County of Union	/)) s.s.:	
On this me known, and kno acknowledged that	day of wn by me to be the s he (she) executed the	, 20, personally appeared before me Zhiqiang Guo to ame person(s) described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.
	, ,	
(Seal)		
		Notary Public
Executed this	day of	, 20
Bart Harper	4.0504110	
ACKNOWLEDGEN	IENT	
State of New Jersey	y)) s.s.:	
County of Union)	
On this	day of	, 20, personally appeared before me Bart Harper to same person described in and who executed the foregoing instrument, and
me known, and kno acknowledged that	wn by me to be the s he (she) executed th	e same, of his (her) own free will for the purpose set forth.
(Seal)		
,		Notary Public

Page 6 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 17042014

PATENT

Executed this	_day of	, 20			
Zhiyong Hu					
ACKNOWLEDGEMEN	NT				
State of New Jersey)) s.s.:				
County of Union) s.s.:)				
On this known, and known by acknowledged that he	day of me to be the same (she) executed the	, 20_ person(s) described same, of his (her) ov	, personally appe in and who executed the n free will for the purp	eared before me Zhiyo ne foregoing instrume ose set forth.	ong Hu to me nt, and
(Seal)					
		*****	Notary Public		
Executed this	day of		20		
Songnian Lin					
ACKNOWLEDGEMEN	NT				
State of New Jersey)) s.s.:				
County of Union)				
	by me to be the sa	ame person described	, personally app d in and who executed wn free will for the purp	the foregoing instrum	i gnian Lin to ent, and
(Seal)					
		***************************************	Notary Public		

Page 7 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT

Executed this d	ay of	, 20
Ping Liu	11.404.50	
ACKNOWLEDGEMENT		
State of New Jersey County of Union)) s.s.:)	
On this known, and known by me	_ day of e to be the same person(s) described in and who executed the foregoing instrument, and his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	_day of	, 20
Ming Wang		_
ACKNOWLEDGEMENT		
State of New Jersey)	
County of Union) s.s.:)	
On this me known, and known by acknowledged that he (s	y me to be the same perso	, 20, personally appeared before me Ming Wang to on described in and who executed the foregoing instrument, and f his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	_ day of	, 20
Feroze Ujjainwalla	A. A. W. W. W.	
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:)	
County of Union)	
Uijainwalla to me kno	own, and known by n	, 20, personally appeared before me Feroze me to be the same person(s) described in and who executed the foregoing ne) executed the same, of his (her) own free will for the purpose set forth.
(Seal)		
(Geal)		Notary Public
		rectary Fabric
Executed this	day of	, 20
Jiayi Xu		
ACKNOWLEDGEME	NT	
State of New Jersey)	
County of Union) s.s.:)	
On this known, and known by acknowledged that he	day of me to be the same (she) executed the	, 20, personally appeared before me Jiayi Xu to me person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	day of	, 20
Libo Xu		
ACKNOWLEDGEME	ENT	
State of New Jersey)) s.s.:	
County of Union) 5.5	
On this known, and known by acknowledged that he	day of day of y me to be the same e (she) executed the	person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
		•
Executed this	day of	, 20
Rui Zhang		
ACKNOWLEDGEME	ENT	
State of New Jersey)) s.s.:	
County of Middlesex		
On this known, and known by acknowledged that he	day of y me to be the same e (she) executed the	person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Page 10 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ
- (3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 61/931,005 filed on 01/24/2014;

U.S. Application No. 15/104,537 having a filing date of 6/15/2016; and PCT International Application No. 15/104,537 having a filing date of 1/20/2015

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

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

Executed this	day of	, 20
Richard Berger		
ACKNOWLEDGEMEN	т	
Commonwealth of Penr	nsylvania)) s.s.:)	
County of Montgomery		
On this me known, and known l acknowledged that he (day of by me to be the same pers she) executed the same, o	, 20, personally appeared before me Richard Berger to son(s) described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Timothy A. Blizzard		_
ACKNOWLEDGEMEN	т	
State of New Jersey)	
County of Mercer) s.s.:)	
On this Blizzard to me known, instrument, and acknow	day of and known by me to be the vledged that he (she) exect	, 20, personally appeared before me Timothy A. e same person described in and who executed the foregoing uted the same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	_ day of	, 20
Brian T. Campbell		
ACKNOWLEDGEMEN	NT	
State of New Jersey County of Burlington)) s.s.:)	
On thisto me known, and kno	day of wn by me to be the (she) executed the	, 20, personally appeared before me Brian T. Campbe same person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Helen Y. Chen		
ACKNOWLEDGEME	NT	
State of New Jersey County of Union)) s.s.:	
On this me known, and knowr	day of h by me to be the sa (she) executed the	, 20, personally appeared before me Helen Y. Chen to me person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	day of	, 20	
John S. Debenham			
ACKNOWLEDGEMENT	<u>.</u>		
State of New Jersey)) s.s.:		
County of Union	,		
Debenham to me know	n, and known by me to be t	the same perso	, personally appeared before me John S . son(s) described in and who executed the foregoing of his (her) own free will for the purpose set forth.
(Seal)			
		42-32-00-	Notary Public
Executed this $Q^{\dagger\gamma}$	day of Morer	%\ 0820_	<u>. LY</u> .
Sunita V. Dewnani			
ACKNOWLEDGEMENT	г		
State of New Jersey)		
County of Hudson) s.s.:)		
On this 1944 Dewnani to me known, instrument, and acknow	day of November and known by me to be the ledged that he (she) executed	e same person ted the same,	h described in and who executed the foregoing of his (her) own free will for the purpose set forth.
(Seal) My Comm	LUCIENNE ROY Notary Public State of New Jersey ission Expires Aug 28, 2015		Notary Public

Page 4 of 10

Executed this	_ day of	, 20
Byron DuBois		
ACKNOWLEDGEMEN	NT	
State of New York County of New York)) s.s.:	
County of New York)	
me known, and known	n by me to be the san	, 20, personally appeared before me Byron DuBois to ne person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Candido Gude		·
ACKNOWLEDGEME	NT	
State of New York)) s.s.:	
County of Richmond)	
On this me known, and knowr acknowledged that he	n by me to be the sar	, 20, personally appeared before me Candido Gude to me person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	_ day of	, 20	
Zhiqiang Guo		_	
ACKNOWLEDGEMEN	NT		
State of New Jersey County of Union)) s.s.:		
County of Union	ý	•	
On this me known, and known acknowledged that he	day of by me to be the same (she) executed the sa	, 20, personally appeared before me Zhiqiang G ue person(s) described in and who executed the foregoing instrument, a me, of his (her) own free will for the purpose set forth.	io to and
(Seal)			
		Notary Public	
Executed this	day of	, 20	
Bart Harper			
ACKNOWLEDGEME	NT		
State of New Jersey)) s.s.:		
County of Union)		
On this me known, and knowr acknowledged that he	day of h by me to be the same (she) executed the sa	, 20, personally appeared before me Bart Harpe person described in and who executed the foregoing instrument, and the me, of his (her) own free will for the purpose set forth.	r to
(Seal)			
		Notary Public	

Page 6 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1 PAGENT

Executed this	_ day of	, 20	
Zhiyong Hu			
ACKNOWLEDGEME	NT		
State of New Jersey County of Union)) s.s.:)		
On this known, and known by	me to be the same	, 20, personally appeared before me Zh person(s) described in and who executed the foregoing instrur same, of his (her) own free will for the purpose set forth.	iyong Hu to me nent, and
(Seal)			
		Notary Public	
Executed this	day of	, 20	
Songnian Lin			
ACKNOWLEDGEME	NT		
State of New Jersey)) s.s.:		
On this me known, and know acknowledged that he	n by me to be the sa	, 20, personally appeared before me S me person described in and who executed the foregoing instri same, of his (her) own free will for the purpose set forth.	iongnian Lin to ument, and
(Seal)			
		Notary Public	

Executed this	day of	, 20
Ping Liu		
ACKNOWLEDGEMENT	г	
State of New Jersey County of Union)) s.s.:)	
On thisknown, and known by m	e to be the same perso	, 20, personally appeared before me Ping Liu to me on(s) described in and who executed the foregoing instrument, and on, of his (her) own free will for the purpose set forth.
(Seal)		
	•	Notary Public
Executed this	day of	, 20
Ming Wang		
ACKNOWLEDGEMEN ⁻	г	
State of New Jersey)	
County of Union) s.s.:)	
On this me known, and known i acknowledged that he (by me to be the same p	, 20, personally appeared before me Ming Wang to erson described in and who executed the foregoing instrument, and e, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	day of	, 20
Feroze Ujjainwalla	A A Section Control of the Control o	
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:)	
County of Union	•	
On this Ujjainwalla to me kno instrument, and ackno	day of own, and known by owledged that he (s	, 20, personally appeared before me Feroze me to be the same person(s) described in and who executed the foregoing he) executed the same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Jiayi Xu	MANUAL MA	
ACKNOWLEDGEME	ENT	
State of New Jersey)	
County of Union) s.s.:)	
On this known, and known by acknowledged that he	day of y me to be the same e (she) executed the	, 20, personally appeared before me Jiayi Xu to me experson described in and who executed the foregoing instrument, and exame, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this d	lay of	, 20
Libo Xu		
ACKNOWLEDGEMENT		
State of New Jersey)) s.s.:	
County of Union)	
known, and known by me	e to be the same person(, 20, personally appeared before me Libo Xu to me (s) described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	_ day of	, 20
Rui Zhang	410,4444	
ACKNOWLEDGEMENT		
State of New Jersey)	
County of Middlesex) s.s.:)	
On this known, and known by m acknowledged that he (s	e to be the same person	, 20, personally appeared before me Rui Zhang to me described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)		
(- 50.)		Notary Public
		Notary i abito

Page 10 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1154 TENT

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ
- (3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 61/931,005 filed on 01/24/2014;

U.S. Application No. 15/104,537 having a filing date of 6/15/2016; and PCT International Application No. 15/104,537 having a filing date of 1/20/2015

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

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

Executed this day of	, 20
Richard Berger	
ACKNOWLEDGEMENT	
ACKNOWLEDGEMENT Commonwealth of Pennsylvania) County of Montgomery) s.s.:
On this day of me known, and known by me to be the	, 20, personally appeared before me Richard Berger to same person(s) described in and who executed the foregoing instrument, and see same, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	, 20
Timothy A. Blizzard	
ACKNOWLEDGEMENT	
State of New Jersey)) s.s.: County of Mercer)	
On this day of Blizzard to me known, and known by m instrument, and acknowledged that he (, 20, personally appeared before me Timothy A. le to be the same person described in and who executed the foregoing she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)	Notary Public

Page 2 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 110,47011 ENT

Executed this	day of	, 20		
Brian T. Campbell		_		
ACKNOWLEDGEMEN	т			
State of New Jersey County of Burlington)) s.s.:			
On thisto me known, and know	n by me to be the sam	, 20, pe e person(s) described in e, of his (her) own free w	and who executed the f	oregoing instrument, and
(Seal)				
(No	otary Public	
Executed this	day of	, 20		
Helen Y. Chen				÷
ACKNOWLEDGEMEN	т			·
State of New Jersey)) s.s.:			
County of Union On this me known, and known acknowledged that he (by me to be the same	, 20, poerson described in and vole, of his (her) own free w	who executed the forego	fore me Helen Y. Chen to bing instrument, and orth.
(Seal)				
		No	otary Public	

Page 3 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT

Executed this	day of	, 20
John S. Debenham		
ACKNOWLEDGEMEN	IT	
State of New Jersey)	
County of Union)) s.s.:)	
On this	dav of	, 20, personally appeared before me John S. to be the same person(s) described in and who executed the foregoin
Debenham to me know	wn, and known by me	to be the same person(s) described in and who executed the foregoin executed the same, of his (her) own free will for the purpose set forth.
mstrument, and acknow	medged that he (she)	executed the same, of his (her) own nee will for the purpose sections.
(01)		
(Seal)		
		Notary Public
Executed this	day of	, 20
Sunita V. Dewnani		
ACKNOWLEDGEMEN	NT	
State of New Jersey)	
County of Hudson) s.s.:	
	, day, af	20 paraenally appeared before me Sunita V
On this Dewnani to me known instrument, and acknown	day of , and known by me to wledged that he (she)	, 20, personally appeared before me Sunita V . be the same person described in and who executed the foregoing executed the same, of his (her) own free will for the purpose set forth
(Seal)		
		Notary Public
		Hotaly Fability

Page 4 of 10
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010
PATENT

Executed thi	nis day of, 20	
Byron DuBo	dois	
ACKNOWLE	EDGEMENT	
State of New		
County of Ne) s.s.: New York)	
me known, a	this day of, 20, personally appeared before me E and known by me to be the same person(s) described in and who executed the foregoing in ged that he (she) executed the same, of his (her) own free will for the purpose set forth.	Byron DuBois to nstrument, and
(Seal)		***
	Notary Public	
Executed thi	enclus Serala	
ACKNOWL	EDGEMENT	
State of Nev		
County of R) s.s.; Richmond) /	
me known, a	n this day of	Candido Gude to trument, and
(Seal)	MAURISEN P. DeANGELO Notary Public, State of New York No. 40-4808216 Onailised in Pictraronal County Commission Expires Jan. 31, 20	 .

Executed this	day of	, 20
Zhiqiang Guo		
ACKNOWLEDGEME	NT	
State of New Jersey)	
)) s.s.:)	
•		
On this me known, and knowl acknowledged that he	day of n by me to be the sa e (she) executed the	, 20, personally appeared before me Zhiqiang Guo to ame person(s) described in and who executed the foregoing instrument, and a same, of his (her) own free will for the purpose set forth.
ū	,	
(5)		
(Seal)		
		Notary Public
Executed this	day of	, 20
Exception the	uay or	
Bart Harper		
Bart Harper		
ACKNOWLEDGEME	ENT	
State of New Jersey)	
County of Union) s.s.:	
	,	and the second s
On this me known, and know acknowledged that he	day of n by me to be the sa e (she) executed the	, 20, personally appeared before me Bart Harper to ame person described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Page 6 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010 PATENT

Executed this	_ day of	, 20	
71:11		×	
Zhiyong Hu			
ACKNOWLEDGEMEN			
State of New Jersey)		
County of Union)) s.s.:)		
		, 20	, personally appeared before me Zhiyong Hu to me
known, and known by	me to be the same	person(s) described in ar	_, personally appeared before me Zhiyong Hu to me nd who executed the foregoing instrument, and ee will for the purpose set forth.
acknowledged that he	(Site) executed the	same, or his (her) own in	ee will for the purpose section.
(Seal)			
			Notary Public
Executed this	day of	, 20	
Songnian Lin			
ACKNOWLEDGEMEN	NT		
State of New Jersey)) s.s.:		
County of Union)		
On this	day of	, 20	, personally appeared before me Songnian Lin to
me known, and known	by me to be the sa	ame person described in a	, personally appeared before me Songnian Lin to and who executed the foregoing instrument, and ee will for the purpose set forth.
acknowledged that he	(Sile) executed the	same, or his (her) own in	ee will for the purpose section.
(Seal)		<u></u>	
			Notary Public

Executed this	day of	, 20	
Ping Liu		ANALYS A CHIMINA A SAMMA	
ACKNOWLEDGEME	NT		
State of New Jersey)) s.s.:)		
On this known, and known by acknowledged that he	day of me to be the same e (she) executed the	, 20 e person(s) described in a e same, of his (her) own f	, personally appeared before me Ping Liu to me and who executed the foregoing instrument, and free will for the purpose set forth.
(Seal)			
		 	Notary Public
Executed this	day of	, 20_	·
Ming Wang			
ACKNOWLEDGEME	NT		
State of New Jersey)) s.s.:		
County of Union)		
On this me known, and know acknowledged that he	day of n by me to be the s e (she) executed the	, 20 same person described in e same, of his (her) own t	, personally appeared before me Ming Wang t and who executed the foregoing instrument, and free will for the purpose set forth.
(Seal)			
		PATRIC	Notary Public

Executed this	day of	, 20
Feroze Ujjainwalla		
ACKNOWLEDGEME	NT	
State of New Jersey County of Union)) s.s.:)	
On this Uijainwalla to me kno	own, and known by me	to be the same person(s) described in and who executed the foregoing executed the same, of his (her) own free will for the purpose set forth.
(Seal)	•	
		Notary Public
Executed this	day of	, 20
Jiayi Xu		
ACKNOWLEDGEME	ENT	
State of New Jersey)	
County of Union) s.s.:)	
known, and known by	day of y me to be the same pe e (she) executed the sa	, 20, personally appeared before me Jiayi Xu to me erson described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	_ day of	, 20
Libo Xu		
ACKNOWLEDGEMEN	NT	
State of New Jersey)) s.s.:	
County of Union)	
On this known, and known by acknowledged that he	day of me to be the same (she) executed the	person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Rui Zhang		
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:	
County of Middlesex) s.s)	
On this known, and known by acknowledged that he	day of me to be the same (she) executed the	, 20, personally appeared before me Rui Zhang to me person described in and who executed the foregoing instrument, and e same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ
- (3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 61/931,005 filed on 01/24/2014;

U.S. Application No. 15/104,537 having a filing date of 6/15/2016; and PCT International Application No. PCT/US2015/011939 having a filing date of 1/20/2015

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
Richard Berger	
ACKNOWLEDGEMENT	
Commonwealth of Pennsylvania) s.s. County of Montgomery)	;
On this day of me known, and known by me to be the same	, 20, personally appeared before me Richard Berger to person(s) described in and who executed the foregoing instrument, and me, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	, 20
Timothy A. Blizzard	
ACKNOWLEDGEMENT	
State of New Jersey) s.s.:	
Blizzard to me known, and known by me to	, 20, personally appeared before me Timothy A . be the same person described in and who executed the foregoing executed the same, of his (her) own free will for the purpose set forth.
(Seal)	Notary Public

Executed this	day of	20	
Executed tills	day or		
	ν.		
Brian T. Campbell			
·			•
ACKNOWLEDGEMEN	Т		
State of New Jersey)		•
) s.s.:		
County of Burlington)		
to me known, and know	n by me to be the sa	, 20, personally appeared me person(s) described in and who executed me, of his (her) own free will for the purpose s	the foregoing instrument, and
(C1)			
(Seal)			AND THE PARTY.
		Notary Public	
Executed this	day of	, 20	
Helen Y. Chen			
ACKNOWLEDGEMEN	ıT		
State of New Jersey)) s.s.:		
County of Union	ý		
me known, and known	by me to be the sam	, 20, personally appeare e person described in and who executed the f ame, of his (her) own free will for the purpose	d before me Helen Y. Chen to oregoing instrument, and set forth
acknowledged that he i	(Sile) executed the Si	and, of the (not) own not will for the purpose.	551.51411
•			
(Seal)			
		Notary Public	

Executed this	_ day of	, 20
		. •
John S. Debenham		· ·
•		•
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:)	-
•) s.s.:	
County of Union)	
On this	day of	, 20, personally appeared before me John S . e to be the same person(s) described in and who executed the foregoing
instrument, and acknowledge	owledged that he (she	e) executed the same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Sunita V. Dewnani		
ACKNOWLEDGEME	NT	
State of New Jersey)	
) s.s.:	
County of Hudson)	
On this	day of	to be the same person described in and who executed the foregoing
instrument, and acknow	m, and known by me to owledged that he (she	e) executed the same, of his (her) own free will for the purpose set forth.
	- ,	
(Seal)		
		Notary Public

Executed this	day of	, 20
Byron DuBois		.
ACKNOWLEDGEMEN	т	
State of New York County of New York) s.s.:	
County of New York)	
me known, and known b	by me to be the same	, 20, personally appeared before me Byron DuBois to e person(s) described in and who executed the foregoing instrument, and me, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Candido Gude		
ACKNOWLEDGEMEN	т	
State of New York)	
County of Richmond) s.s.:)	
On this me known, and known acknowledged that he (by me to be the same	, 20, personally appeared before me Candido Gude appearence person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth.
(Cool)		
(Seal)		
		Notary Public

Executed this	day of	, 20
	•	
		
Zhiqiang Guo		
•		
ACKNOWLEDGEME	NT	
State of New Jersev)	
State of New Jersey County of Union) s.s.:	
On this me known, and know	day of n by me to be the s	, 20, personally appeared before me Zhiqiang Guo to ame person(s) described in and who executed the foregoing instrument, and
acknowledged that he	e (she) executed the	e same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
E (101)	d£	, 20
Executed this	day of	, 20
	* SANDANA SANTANA	
Bart Harper		
ACKNOWLEDGEME	ENT	
State of New Jersey	,	
) s.s.:	
County of Union)	
On this	day of	, 20, personally appeared before me Bart Harper to same person described in and who executed the foregoing instrument, and
acknowledged that h	e (she) executed th	e same, of his (her) own free will for the purpose set forth.
(Sool)		
(Seal)		
		Notary Public

Executed this	day of	, 20	
•			
Zhiyong Hu	ALA MATA		
ACKNOWLEDGEM	ENT	,	
State of New Jersey)) s.s.:		
County of Union)		
On this known, and known t acknowledged that I	day of by me to be the same he (she) executed the	, 20, personally appeared before me Zhiyong Hu to person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.) me
(Seal)			
		Notary Public	
Executed this	day of	, 20	
Songnian Lin			
ACKNOWLEDGEN	IENT		
State of New Jersey	y)) s.s.:		
County of Union)		
On this me known, and kno acknowledged that	day of wn by me to be the s he (she) executed the	, 20, personally appeared before me Songnian Li ame person described in and who executed the foregoing instrument, and a same, of his (her) own free will for the purpose set forth.	i n to
(Seal)			
		Notary Public	

Executed this	_ day of	, 20
	W444	
Ping Liu		
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:)	
County of Union		On the second before we Disput into me
known, and known by	me to be the same p	, 20, personally appeared before me Ping Liu 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.
(Seal)		
		Notary Public
Executed this	day of	, 20
Ming Wang		
ACKNOWLEDGEME	NT	
State of New Jersey)	
County of Union) s.s.:)	
On this me known, and know acknowledged that he	n by me to be the sar	, 20, personally appeared before me Ming Wang to me person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
(Ocal)		Notary Public

Executed this	day of	
	• •	
Feroze Ujjainwalla	1441	
r croze ojjaniwana		
ACKNOWLEDGEMENT		
State of New Jersey)) s.s.:	
County of Union)	
On this Ujjainwalla to me know instrument, and acknow	day of n, and known by me to be t ledged that he (she) execut	, 20, personally appeared before me Feroze he same person(s) described in and who executed the foregoing ted the same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
	•	
Jiayi Xu		-
ACKNOWLEDGEMEN [*]	Т	
State of New Jersey)	
County of Union) s.s.:)	
	day of	20 personally appeared before me Jiavi Xu to me
known, and known by macknowledged that he (ne to be the same person d she) executed the same, of	, 20, personally appeared before me Jiayi Xu to me escribed in and who executed the foregoing instrument, and his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	_ day of	, 20		
Libo Xu				
			·	
ACKNOWLEDGEME	NT			
State of New Jersey)			
County of Union) s.s.:)			
known, and known by	me to be the same p	erson(s) described in	, personally appeared be and who executed the foreg free will for the purpose set	oing instrument, and
(Seal)				
			Notary Public	
Executed this3 (38 day of <u><i>Q</i></u> _Q	<u>**</u> , 20	14	
1602				
Rui Zhang	•			
ACKNOWLEDGEME	NT			
State of New Jersey)			
County of Middlesex)) s.s.:)			
known, and known by	me to be the same p	oerson described in an	personally appeared bed who executed the foregoin free will for the purpose set	ng instrument, and
(Seal)		a	n La Tourati Notary Public	get utilan
			Notary Public	······

Ann LaTourette NOTARY PUBLIC OF NEW JERSEY I.D. # 2413879 My Commission Expires 10/25/2018

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Richard Berger, located at Harleysville, PA
- (2) Timothy A. Blizzard, located at Princeton, NJ
- (3) Brian T. Campbell, located at Burlington, NJ
- (4) Helen Y. Chen, located at Marlboro, NJ
- (5) John S. Debenham, located at Scotch Plains, NJ
- (6) Sunita V. Dewnani, located at Secaucus, NJ
- (7) Byron DuBois, located at New York, NY
- (8) Candido Gude, located at Staten Island, NY
- (9) Zhiqiang Guo, located at Morganville, NJ

- (10) Bart Harper, located at New York, NY
- (11) Zhiyong Hu, located at Livingston, NJ
- (12) Songnian Lin, located at Holmdel, NJ
- (13) Ping Liu, located at Westfield, NJ
- (14) Ming Wang, located at Belle Mead, NJ
- (15) Feroze Ujjainwalla, located at Hoboken, NJ
- (16) Jiayi Xu, located at Marlboro, NJ
- (17) Libo Xu, located at Bridgewater, NJ
- (18) Rui Zhang, located at Plainsboro, NJ

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

ISOQUINOLINE DERIVATIVES AS MGAT2 INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 61/931,005 filed on 01/24/2014;

U.S. Application No. 15/104,537 having a filing date of 6/15/2016; and PCT International Application No. 15/104,537 having a filing date of 1/20/2015

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

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

Executed this	day of	, 20
	•	
Richard Berger		
Monara Bolgo		
		
ACKNOWLEDGEMEN		
Commonwealth of Pen	nsylvania)) s.s.: ,)	
County of Montgomery	, <u> </u>	
me known, and known	by me to be the same person	, 20, personally appeared before me Richard Berger to on(s) described in and who executed the foregoing instrument, and f his (her) own free will for the purpose set forth.
(Sool)		
(Seal)		Notary Public
		Notary Public
Executed this	day of	20
Executed this	uuy or	
Timothy A. Blizzard	. ·	<u> </u>
ACKNOWLEDGEMEN	NT	
State of New Jersey)	
County of Mercer) s.s.:)	
On thisBlizzard to me known	, and known by me to be the	, 20, personally appeared before me Timothy A . e same person described in and who executed the foregoing
instrument, and ackno	wieugeu triat ne (sne) exect	uted the same, of his (her) own free will for the purpose set forth.
(Cool)		
(Seal)		Note that Doubling
		Notary Public

Executed thisc	lay of	, 20		
				. •
		_		
Brian T. Campbell				
ACKNOWLEDGEMENT				
State of New Jersey)) s.s.:			
County of Burlington)			
On thisto me known, and known acknowledged that he (s	day of n by me to be the sam she) executed the sam	, 20, personally ne person(s) described in and who he, of his (her) own free will for the	appeared before me Bri executed the foregoing i purpose set forth.	an T. Campbell nstrument, and
(Seal)				
		Notary Pul	olic	
Executed this	_ day of	, 20		
Helen Y. Chen				
ACKNOWLEDGEMENT	r			
State of New Jersey)			
County of Union) s.s.:)			
On this me known, and known kacknowledged that he (s	day of by me to be the same she) executed the sam	, 20, personal person described in and who exene, of his (her) own free will for the	ly appeared before me H cuted the foregoing instrue purpose set forth.	elen Y. Chen to iment, and
(Seal)				
		Notary Pu	blic	

Page 3 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1 PAGOSTENT

Executed this	day of	, 20	
			4.0
John S. Debenham			
Joini J. Debermani			
ACKNOWLEDGEMENT	Γ		
State of New Jersey)		
County of Union)) s.s.:)		
On this	day of n, and known by m	e to be the same person	, personally appeared before me John S. on(s) described in and who executed the foregoing of his (her) own free will for the purpose set forth.
mstrument, and acknow	leaged that he (she	, choduca ino damo, c	or rillo (nor) own need rill ter are purposed each result.
(Seal)			
(Seal)			N. L D. J. P.
			Notary Public
Executed this	day of	, 20	·
Sunita V. Dewnani			
ACKNOWLEDGEMEN*	Т		
State of New Jersey)		
) s.s.:		
County of Hudson	,		, , , , , , , , , , , , , , , , , , ,
On this Dewnani to me known, instrument, and acknow	day of and known by me /ledged that he (sh	, 20 to be the same person e) executed the same,	, personally appeared before me Sunita V . described in and who executed the foregoing of his (her) own free will for the purpose set forth.
(Seal)			
			Notary Public

Page 4 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2011 ENT

Executed this 5 m day of December, 20 m.
Byron DuBois
ACKNOWLEDGEMENT
State of New York)) s.s.:
County of New York)
On this
(Sealt OF MEN YORK IN STATE OWNER OF NOTARY PUBLIC OWNER OF NOTARY PUBLIC NOTARY PUBLI
Executed this day of, 20
Candido Gude
ACKNOWLEDGEMENT
State of New York)
) s.s.: County of Richmond)
On this day of, 20, personally appeared before me Candido Gude 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
• •		·
Zhiqiang Guo		
		·
ACKNOWLEDGEME	ENT	
State of New Jersey County of Union)	•
County of Union) s.s.:)	
On this	day of vn by me to be the sar	, 20, personally appeared before me Zhiqiang Guo to me person(s) described in and who executed the foregoing instrument, and
acknowledged that h	e (she) executed the	same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Bart Harper	,,	
	FNT	
ACKNOWLEDGEM		
State of New Jersey)) s.s.:	
County of Union)	
On this me known, and know acknowledged that h	day of wn by me to be the same (she) executed the	, 20, personally appeared before me Bart Harper to me person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this day of	, 20	
Zhiyong Hu		
ACKNOWLEDGEMENT		
State of New Jersey) s.s.:		
County of Union)		
known, and known by me to be the s	, 20, personally appeared before me Zhiyong Hu to ame person(s) described in and who executed the foregoing instrument, and I the same, of his (her) own free will for the purpose set forth.	me
(Seal)		
	Notary Public	
Executed this day of	, 20	
Songnian Lin		
ACKNOWLEDGEMENT		
State of New Jersey) s.s.:		
County of Union)		
On this day of _ me known, and known by me to be a acknowledged that he (she) execute	, 20, personally appeared before me Songnian Lir ne same person described in and who executed the foregoing instrument, and If the same, of his (her) own free will for the purpose set forth.	1 to
(Seal)		
	Notary Public	

Page 7 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 174044 ENT

Executed this	_ day of	, 20
Ping Liu		<u></u>
ACKNOWLEDGEME	NT	
State of New-Jersey County of Union) s.s.:)	, 20, personally appeared before me Ping Liu to me
known, and known by	me to be the same per	rson(s) described in and who executed the foregoing instrument, and me, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public
Executed this	day of	, 20
Ming Wang	- ANT.	
ACKNOWLEDGEME	NT	
State of New Jersey)) s.s.:	
County of Union)	
On this me known, and knowl acknowledged that he	n by me to be the same	, 20, personally appeared before me Ming Wang to e person described in and who executed the foregoing instrument, and time, of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

Executed this	day of	, 20	
•			
Feroze Ujjainwalla		<u>. </u>	
ACKNOWLEDGEMI	ENT		
State of New Jersey	· · · · · · · · · · · · · · · · · · ·		
State of New Jersey County of Union) s.s.:)		
On this Ujjainwalla to me kr instrument, and ackr	day of nown, and known by r nowledged that he (sh	ne to be the same person(s) described in and who executed the foregoine) executed the same, of his (her) own free will for the purpose set forth	ing h.
(Seal)			
		Notary Public	
Executed this	day of	, 20	
Jiayi Xu			
ACKNOWLEDGEM	ENT		
State of New Jersey			
County of Union) s.s.:)		
On this known, and known to acknowledged that h	day of oy me to be the same he (she) executed the	, 20, personally appeared before me Jiayi Xu to person described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.	o me
0	. ,		
(Sool)			
(Seal)		Notary Public	
		INOLALY I ADIIO	

Page 9 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 174200 ENT

Executed this day of	, 20
	••
Libo Xu	
ACKNOWLEDGEMENT	
State of New Jersey)) s.s.:	
County of Union) s.s.:	
known, and known by me to be the same p	erson(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	, 20
Rui Zhang	
ACKNOWLEDGEMENT	
State of New Jersey) s.s.:	
County of Middlesex)	20 nersonally anneared before me Rui Zhang to me
known, and known by me to be the same packnowledged that he (she) executed the s	, 20, personally appeared before me Rui Zhang to me berson described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal)	Notary Public

Page 10 of 10 Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 1 PATENT

RECORDED: 06/15/2016 REEL: 039023 FRAME: 0073