PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2763915

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STUART DENHAM SHUMWAY	09/14/2012
CARLO TONIATTI	10/08/2012
BRIAN SCOTT ROBERTS	09/19/2012
MELISSA M. MARTIN	09/17/2012

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14344190

CORRESPONDENCE DATA

Fax Number: (732)574-4720

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 732-594-4958

Email: us efs@merck.com

Correspondent Name: MERCK

126 EAST LINCOLN AVENUE Address Line 1:

Address Line 2: RY86-2011A

Address Line 4: RAHWAY, NEW JERSEY 07065

NAME OF SUBMITTER: RICHARD S. PARR	
SIGNATURE:	/Richard S. Parr, Reg. #32,586/
DATE SIGNED:	03/12/2014

Total Attachments: 13

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PATENT

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PATENT REEL: 032412 FRAME: 0339

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	Stuart Denham Shumway	located at	Franklin, MA	02038
(2)	Carlo Toniatti	located at	Houston, TX	77005
(3)	Brian Scott Roberts	located at	Boston, MA	02135
(4)	Melissa M. Martin	located at	Thousand Oaks, CA	91362

(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:

and/or in the following application(s): U.S. Provisional Application No. 61/534,921 filed on 09/15/2011; U.S. Application No. having a filing date of ______; and PCT International Application No. _____ having a filing date of ______.

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

WHEREAS, Merck Sharp & Dohme Corp. a **Corporation** organized under the laws of 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.

Executed this 14 day of Sokinstan	, 2012.	
STUART DENHAM SHUMWAY		
- / V		
ACKNOWLEDGEMENT		
State of <u>Massachusetts</u>) .	
County of Suffalk) s.s.:)	
STUART DENHAM SHUMWAY to me known, a	and known by me to be	2012, personally appeared before me the same person described in and who executed a same, of his (her) own free will for the purpose
(Seal)	Lull	WHU
) No	Tary Public GILLIAN N. MILLER Notary Public Commonwealth of Massachusetts My Commission Expires January 20, 2017
Executed this day of	, 2012.	
CARLO TONIATTI		
ACKNOWLEDGEMENT		
State of)) s.s.:	
County of) 8.8	
On this day of known, and known by me to be the same p acknowledged that he (she) executed the same	erson described in an	appeared before me CARLO TONIATTI to me d who executed the foregoing instrument, and ill for the purpose set forth.
(Seal)		
	No	tary Public

Page 2 of 3
Computer Generated Template "Assignment-Blank Single Assignes Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this day of	, 2012.
BRIAN SCOTT ROBERTS	·
ACKNOWLEDGEMENT	
State of	.)
County of) s.s.:)
On this day of me_known_and known by me to be the same	, 2012, personally appeared before me BRIAN SCOTT ROBERTS to 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	, 2012.
MELISSA M. MARTIN	
A CANADA TO CHIEF IT	
ACKNOWLEDGEMENT	
State of)) s.s.:
known, and known by me to be the same p	, 2012, personally appeared before me MELISSA M. MARTIN to me person 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 3
Computer Generated Template "Assignment-Blank Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	Stuart Denham Shumway	located at	Franklin, MA	02038
(2)	Carlo Toniatti	located at	Houston, TX	77054
(3)	Brian Scott Roberts	located at	Boston, MA	02135
(4)	Melissa M. Martin	located at	Thousand Oaks, CA	91362

(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:

and/or in the following application(s): U.S. Provisional Application No. 61/534,921 filed on 09/15/2011; U.S. Application No. having a filing date of _____; and PCT International Application No. _____ having a filing date of _____.

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

WHEREAS, Merck Sharp & Dohme Corp. a **Corporation** organized under the laws of 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.

Executed this day of	_, 2012.
STUART DENHAM SHUMWAY	
ACKNOWLEDGEMENT	
State of)
County of) s.s.:)
On this day of	, 2012, personally appeared before me
STUART DENITAM SHUMWAY to me known, a the foregoing instrument, and acknowledged the set forth.	and known by me to be the same person described in and who executed nat he (she) executed the same, of his (her) own free will for the purpose
(Seal)	
(554)	Notary Public
	•
8	
Executed this 8 day of OCTOBER	_ , 2012.
Con le 201.	
CARLO TONIATTI	
ACKNOWLEDGEMENT	
State of <u>AWAS</u>)
County of Hams) s.s.:)
On this <u>Y</u> day of <u>UUT)////</u> known, and known by me to be the same represented that he (she) executed the same	2012, personally appeared before me CARLO TONIATTI to me person described in and who executed the foregoing instrument, and of his the purpose set forth.
Manufacture of the second seco	1 1000 ma facos
(Seal) BONNIE ROSANNE LUGO Notery Public, State of Texas My Commission Expires February 07, 2015	Notary Public
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Page 2 of 3
Computer Generated Template "Assignment-Blank Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this day of	, 2012.
BRIAN SCOTT ROBERTS	
ACKNOWLEDGEMENT	
State of)
County of) s.s.:)
me known, and known by me to be the same	, 2012, personally appeared before me BRIAN SCOTT ROBERTS to ne person described in and who executed the foregoing instrument, and the, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of	, 2012.
MELISSA M. MARTIN	
ACKNOWLEDGEMENT	
State of)
County of) s.s.:)
known, and known by me to be the same	, 2012, personally appeared before me MELISSA M. MARTIN to me person described in and who executed the foregoing instrument, and ne, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public

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

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE.

(1)	Stuart Denham Shumway	located at	Franklin, MA	02038
(2)	Carlo Toniatti	located at	Houston, TX	77005
(3)	Brian Scott Roberts	located at	Boston, MA	02135
(4)	Melissa M. Martin	located at	Thousand Oaks, CA	91362

(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:

COMPOSITIONS AND METHODS FOR TREATING CANCER

U.S. Provisional Application No. 61/534,921 filed on 09/1	<u>5/2011;</u>
U.S. Application No having a filing	date of; and
PCT International Application Noh	aving a filing date of

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

WHEREAS, Merck Sharp & Dohme Corp. a **Corporation** organized under the laws of 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.

Executed this day of	, 2012.
STUART DENHAM SHUMWAY	• · · · · · · · · · · · · · · · · · · ·
STOAKT DENHAM SHOWWAT	
ACKNOWLEDGEMENT	
State of)) s.s.:
County of) 5.5
the foregoing instrument, and acknowledged the	, 2012, personally appeared before me and known by me to be the same person described in and who executed at he (she) executed the same, of his (her) own free will for the purpose
set forth.	
(Seal)	
	Notary Public
Executed this day of	_ , 2012.
CARLO TONIATTI	
ACKNOWLEDGEMENT	
State of)) s.s.:
County of)
known and known by me to be the same t	, 2012, personally appeared before me CARLO TONIATTI to me person described in and who executed the foregoing instrument, and e, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public

Page 2 of 3
Computer Generated Template "Assignment-Blank Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this 19 gay of September .	2012.
Executed this 19 day of September.	
BRIAN SCOTT ROBERTS	
ACKNOWLEDGEMENT	
State of <u>Alabama</u>)
County of Madison)
On this Aday of September me known, and known by me to be the same p acknowledged that he (she) executed the same, o) s.s.:) , 2012, personally appeared before me BRIAN SCOTT ROBERTS to erson described in and who executed the foregoing instrument, and f his (her) own free will for the purpose set forth.
(Seal)	Mana Westkall () Notary Public
	()Notary Publik)
Executed this day of ,	2012.
MELISSA M. MARTIN	
MELISSA M. MAN IN	
ACKNOWLEDGEMENT	
State of	
County of) s.s.:)
On this day of known, and known by me to be the same per acknowledged that he (she) executed the same, or	, 2012, personally appeared before me MELISSA M. MARTIN to me son described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)	
	Natary Dublia

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

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	Stuart Denham Shumway	located at	Franklin, MA	02038
(2)	Carlo Toniatti	located at	Houston, TX	77005
(3)	Brian Scott Roberts	located at	Boston, MA	02135
(4)	Melissa M. Martin	located at	Thousand Oaks, CA	91362

(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:

and/or in the following application(s): U.S. Provisional Application No. 61/534,921 filed on 09/15/2011; U.S. Application No. having a filing date of _____; and PCT International Application No. _____ having a filing date of _____.

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

WHEREAS, Merck Sharp & Dohme Corp. a **Corporation** organized under the laws of 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.

Executed this day of	, 2012.
STUART DENHAM SHUMWAY	·
ACKNOWLEDGEMENT	
State of)) s.s.:
County of) s.s.:)
On this day of STUART DENHAM SHUMWAY to me kn the foregoing instrument, and acknowledget forth.	, 2012, personally appeared before me nown, and known by me to be the same person described in and who executed ged that he (she) executed the same, of his (her) own free will for the purpose
(Seal)	
	Notary Public
Executed this day of	, 2012.
CARLO TONIATTI	
ACKNOWLEDGEMENT	
State of	_ }
County of) s.s.:)
known, and known by me to be the s	, 2012, personally appeared before me CARLO TONIATTI to me ame person described in and who executed the foregoing instrument, and a same, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public

Page 2 of 3
Computer Generated Template "Assignment-Blank Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this day of	, 2012.	
BRIAN SCOTT ROBERTS		y.
(x,y) = (x,y) + (x,y		
ACKNOWLEDGEMENT		
State of)) s.s.:	
County of)	
On this day of me known, and known by me to be the same acknowledged that he (she) executed the same	, 2012, personally appeared before reperson described in and who execute, of his (her) own free will for the purpos	ed the toregoing instrument, and
(Seal)		
	Notary Public	
•		
		·
Executed this T day of Selevaber MELISSA M. MARTIN	, 2012.	
ACKNOWLEDGEMENT		
State of	}	
State of) s.s.;)	
On this day of known, and known by me to be the same p acknowledged that he (she) executed the same	, 2012, personally appeared before a person described in and who execute a, of his (her) own free will for the purpos	d the foregoing instrument, and
(Seal)	SEE ATTA (C. 3 4.5
	Notary Public	***************************************

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

ACKNOWLEDGMENT State of California **VENTURA** County of On SEPT. 17 2012 before me, Mala H. Patel, Notary Public (insert name and title of the officer) MARTIN --personally appeared MEUSSA who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in "his/her/their authorized capacity(jes), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. COMM. # 1910995 IOTARY PUBLIC - CALIFORNIA O VENTURA COUNTY COMM. EXPIRES NOV. 26, 2014

DOCUMENT: COMPOSITIONS AND METHODS FOR

TREATING CANCER - MORLDWIDE ASSIGNMENT

PATENT REEL: 032412 FRAME: 0352

RECORDED: 03/12/2014