

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2800304

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DUNCAN BROWN	02/15/2013
JAMES J. CUNNINGHAM	01/30/2013
MARIAN GINDY	01/24/2013
VICTORIA PICKERING	01/30/2013
MATTHEW G. STANTON	01/24/2013
STEVEN M. STIRDIVANT	01/22/2013
WALTER R. STRAPPS	01/24/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MERCK SHARP & DOHME CORP.
<b>Street Address:</b>	126 EAST LINCOLN AVENUE
<b>City:</b>	RAHWAY
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07065
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13937412
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	617-4496500
<b>Email:</b>	docket@mccarter.com
<b>Correspondent Name:</b>	MCCARTER & ENGLISH, LLP
<b>Address Line 1:</b>	265 FRANKLIN STREET
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	121301-01703
<b>NAME OF SUBMITTER:</b>	MARIA LACCOTRIPE ZACHARAKIS, PH.D
<b>SIGNATURE:</b>	/MLZ/
<b>DATE SIGNED:</b>	04/04/2014
<b>Total Attachments: 20</b>	

**PATENT**

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source=Assignment\_Inventors\_Merck#page20.tif

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Duncan Brown, located at Berkeley, CA 94708,
- (2) James J. Cunningham, located at Devon, PA 19333,
- (3) Marian Gindy, located at North Wales, PA 19454,
- (4) Victoria Pickering, located at San Mateo, CA 94403,
- (5) Matthew G. Stanton, located at Marlton, NJ 08053,
- (6) Steven M. Stirdivant, located at Cary, NC 27713,
- (7) Walter R. Strapps, located at Doylestown, PA 18901,

(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:

RNA Interference Mediated Inhibition of Catenin (Cadherin-Associated Protein), Beta 1 (CTNNB1) Gene Expression Using Short Interfering Nucleic Acid (siNA)

and/or in the following application(s):

U.S. Provisional Application No. 61/370,064 filed on August 02, 2010;  
PCT International Application No. PCT/US2011/048178 having a filing date of August 02, 2011

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 5 day of February, 2013  
[Signature]  
Duncan Brown

**ACKNOWLEDGEMENT**

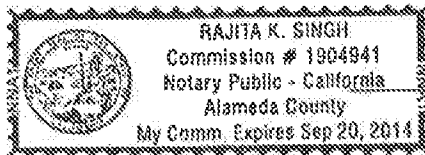
State of California )  
County of Alameda ) s.s.:

On this 5 day of February, 2013 personally appeared Duncan Brown, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within instrument and acknowledged to me that he executed the same in his authority capacity, and that by his signature on the instrument in person, or the entity upon behalf of which the person 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,

(Seal)



[Signature] (RAJITA K SINGH)  
Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2013

\_\_\_\_\_  
James J. Cunningham

**ACKNOWLEDGEMENT**

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

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

(Seal)

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







**WORLDWIDE ASSIGNMENT**

**WHEREAS, I/WE,**

- (1) Duncan Brown, located at Berkeley, CA 94708,
- (2) James J. Cunningham, located at Devon, PA 19333,
- (3) Marian Gindy, located at North Wales, PA 19454,
- (4) Victoria Pickering, located at San Mateo, CA 94403,
- (5) Matthew G. Stanton, located at Marlton, NJ 08053,
- (6) Steven M. Stirdivant, located at Cary, NC 27713,
- (7) Walter R. Strapps, located at Doylestown, PA 18901,

(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:

RNA Interference Mediated Inhibition of Catenin (Cadherin-Associated Protein), Beta 1 (CTNNB1) Gene Expression Using Short Interfering Nucleic Acid (siNA)

and/or in the following application(s):

U.S. Provisional Application No. 61/370,064 filed on August 02, 2010;  
PCT International Application No. PCT/US2011/046179 having a filing date of August 02, 2011

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 24 day of January, 2013

*Marjan Gindy*  
Marjan Gindy

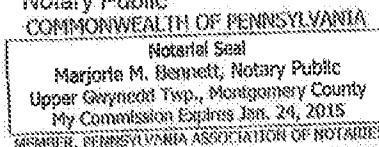
**ACKNOWLEDGEMENT**

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

On this 24 day of January, 2013 personally appeared before me Marjan Gindy, 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)

*Marjorie M. Bennett*  
Notary Public



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2013

\_\_\_\_\_  
Victoria Pickering

**ACKNOWLEDGEMENT**

State of California )  
County of San Mateo ) s.s.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me Victoria Pickering, 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 21 day of January, 2013

Matthew G. Stanton  
Matthew G. Stanton

**ACKNOWLEDGEMENT**

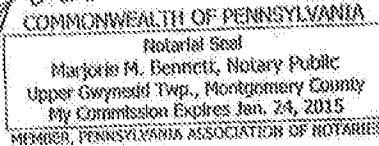
Commonwealth of Pennsylvania )  
County of Montgomery ) s.s.:

On this 24 day of January, 2013 personally appeared before me Matthew G. Stanton, 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)

Marjorie M. Bennett  
Notary Public

Marjorie



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2013

\_\_\_\_\_  
Steven M. Stirdivant

**ACKNOWLEDGEMENT**

State of North Carolina )  
County of \_\_\_\_\_ ) s.s.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me Steven M. Stirdivant, 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 24 day of January, 2013

Walter R. Strapps  
Walter R. Strapps

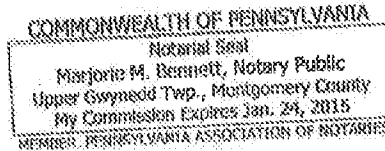
**ACKNOWLEDGEMENT**

Commonwealth of Pennsylvania }  
County of Montgomery } s.s.:

On this 24 day of January, 2013 personally appeared before me Walter R. Strapps, 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)

Marjorie M. Bennett  
Notary Public



WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Duncan Brown, located at Berkeley, CA 94708,
- (2) James J. Cunningham, located at Devon, PA 19333,
- (3) Marian Gindy, located at North Wales, PA 19454,
- (4) Victoria Pickering, located at San Mateo, CA 94403,
- (5) Matthew G. Stanton, located at Marlton, NJ 08053,
- (6) Steven M. Stirdivant, located at Cary, NC 27713,
- (7) Walter R. Strapps, located at Doylestown, PA 18901,

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and/or in the following application(s):

U.S. Provisional Application No. 61/370,064 filed on August 02, 2010;  
PCT International Application No. PCT/US2011/046178 having a filing date of August 02, 2011

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 \_\_\_\_\_, 2013

\_\_\_\_\_  
Duncan Brown

**ACKNOWLEDGEMENT**

State of California )  
 ) s.s.:  
County of Alameda )

On this \_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared Duncan Brown, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within instrument and acknowledged to me that he executed the same in his authority capacity, and that by his signature on the instrument in person, or the entity upon behalf of which the person 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,

(Seal)

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

Executed this \_\_\_\_ day of \_\_\_\_\_, 2013

\_\_\_\_\_  
James J. Cunningham

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me James J. Cunningham, 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 \_\_\_\_\_, 2013

\_\_\_\_\_  
Matthew G. Stanton

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me Matthew G. Stanton, 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 \_\_\_\_\_, 2013

\_\_\_\_\_  
Steven M. Stirdivant

**ACKNOWLEDGEMENT**

State of North Carolina )  
 ) s.s.:  
County of \_\_\_\_\_ )

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

(Seal)

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





WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Duncan Brown, located at Berkeley, CA 94708,
- (2) James J. Cunningham, located at Devon, PA 19333,
- (3) Marian Gindy, located at North Wales, PA 19454,
- (4) Victoria Pickering, located at San Mateo, CA 94403,
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Executed this \_\_\_\_ day of \_\_\_\_\_, 2013

\_\_\_\_\_  
Marian Gindy

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me Marian Gindy, 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 \_\_\_\_\_, 2013

\_\_\_\_\_  
Victoria Pickering

**ACKNOWLEDGEMENT**

State of California                                    )  
County of San Mateo                                 ) s.s.:

On this \_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me Victoria Pickering, 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 \_\_\_\_\_, 2013

\_\_\_\_\_  
Matthew G. Stanton

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 2013 personally appeared before me Matthew G. Stanton, 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

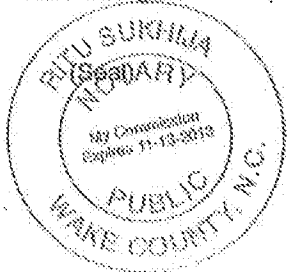
Executed this 22 day of January, 2013

Steven M. Stirdivant  
Steven M. Stirdivant

**ACKNOWLEDGEMENT**

State of North Carolina )  
County of Wake ) s.s.:

On this 22 day of JAN, 2013 personally appeared before me Steven M. Stirdivant, 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.



[Signature]  
Notary Public

