

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Brandon Ason</td> <td>07/08/2011</td> </tr> <tr> <td>Duncan Brown</td> <td>07/14/2011</td> </tr> <tr> <td>Walter Strapps</td> <td>07/14/2011</td> </tr> </tbody> </table>		Name	Execution Date	Brandon Ason	07/08/2011	Duncan Brown	07/14/2011	Walter Strapps	07/14/2011		
Name	Execution Date										
Brandon Ason	07/08/2011										
Duncan Brown	07/14/2011										
Walter Strapps	07/14/2011										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Merck Sharp &amp; Dohme Corp.</td> </tr> <tr> <td>Street Address:</td> <td>126 East Lincoln Avenue</td> </tr> <tr> <td>City:</td> <td>Rahway</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>07065</td> </tr> </table>		Name:	Merck Sharp & Dohme Corp.	Street Address:	126 East Lincoln Avenue	City:	Rahway	State/Country:	NEW JERSEY	Postal Code:	07065
Name:	Merck Sharp & Dohme Corp.										
Street Address:	126 East Lincoln Avenue										
City:	Rahway										
State/Country:	NEW JERSEY										
Postal Code:	07065										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13818310</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13818310						
Property Type	Number										
Application Number:	13818310										
CORRESPONDENCE DATA											
<p>Fax Number: 7325944720  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 732-594-9079        Email: us_efs@merck.com        Correspondent Name: Merck        Address Line 1: 126 East Lincoln Avenue        Address Line 2: RY86-2011A        Address Line 4: Rahway, NEW JERSEY 07065</p>											
ATTORNEY DOCKET NUMBER:	SIR-BRE-00002-US-PCT										
NAME OF SUBMITTER:	Peter Haeberli										
Signature:	/Peter Haeberli, Reg. #52,980/										

Date:

05/10/2013

**Total Attachments: 8**

source=SIRBRE00002-ASSIGN-10MAY2013#page1.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page2.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page3.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page4.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page5.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page6.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page7.tif

source=SIRBRE00002-ASSIGN-10MAY2013#page8.tif

**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE,

- (1) Brandon Ason, located at San Francisco, CA
- (2) Duncan Brown, located at San Francisco, CA
- (3) Walter Strapps, located at San Francisco, CA

(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 Prolyl Hydroxylase Domain 2 (PHD2) Gene Expression Using Short Interfering Nucleic Acid (siNA)**

and/or in the following application(s):

U.S. Provisional Application No. 61/377,409 filed on August 26, 2010

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

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

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

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

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

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

Executed this 8 day of July, 2011.

[Signature]  
Brandon Ason

**ACKNOWLEDGEMENT**

State of California

County of San Francisco

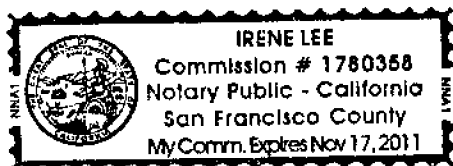
On the 8th of July, 2011, before me, Irene Lee, Notary Public

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

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

WITNESS my hand and official seal,

[Signature]  
Notary Public



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

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

**ACKNOWLEDGEMENT**

State of California

County of San Francisco

On \_\_\_\_\_, 2011, before me, \_\_\_\_\_,

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

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

WITNESS my hand and official seal,

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

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Walter Strapps

**ACKNOWLEDGEMENT**

State of California

County of San Francisco

On \_\_\_\_\_, 2011, before me, \_\_\_\_\_,

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

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

WITNESS my hand and official seal,

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

**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE,

- (1) Brandon Ason, located at San Francisco, CA
- (2) Duncan Brown, located at San Francisco, CA
- (3) Walter Strapps, located at San Francisco, CA

(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 Prol1 Hydroxylase Domain 2 (PHD2) Gene Expression Using Short Interfering Nucleic Acid (siNA)**

and/or in the following application(s):

U.S. Provisional Application No. 61/377,409 filed on August 26, 2010

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

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

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

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

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

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

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Brandon Ason

**ACKNOWLEDGEMENT**

State of California

County of San Francisco

On \_\_\_\_\_, 2011, before me, \_\_\_\_\_,

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

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

WITNESS my hand and official seal,

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



Executed this 14 day of July, 2011.

[Signature]  
Duncan Brown

**ACKNOWLEDGEMENT**

State of California

County of San Francisco

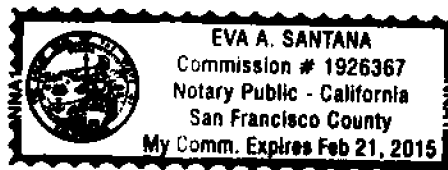
On July 14, 2011, before me, Eva A. Santana,

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

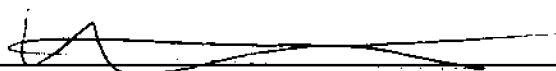
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal,

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



Executed this 14 day of JULY, 2011.

  
\_\_\_\_\_  
Walter Strapps

**ACKNOWLEDGEMENT**

State of California

County of San Francisco

On July 14, 2011, before me, Eva A Santana,  
personally appeared Walter Strapps, who  
proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed  
to within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authority capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the  
entity upon behalf of which the person(s) acted, executed the instrument.

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

WITNESS my hand and official seal,

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

