

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3828491

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GULESI AYANOGLU	09/28/2015
XIAOYAN DU	09/14/2015
VINITA GUPTA	10/11/2015
OMAR LATERZA	09/14/2015
LINDA LIANG	10/01/2015
ERIC RIMMER	08/26/2015
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:	14843285
CORRESPONDENCE DATA	
Fax Number:	(732)594-4720
<i>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.</i>	
Phone:	732-594-5455
Email:	US_EFS@MERCK.COM
Correspondent Name:	MERCK SHARP & DOHME CORP.
Address Line 1:	126 EAST LINCOLN AVENUE
Address Line 2:	RY86-2011A
Address Line 4:	RAHWAY, NEW JERSEY 07065
ATTORNEY DOCKET NUMBER:	23824
NAME OF SUBMITTER:	LI SU
SIGNATURE:	/Li Su, Reg. # 45,141/
DATE SIGNED:	04/13/2016

Total Attachments: 30

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WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Gulesi Ayanoglu, located at Palo Alto, California,
- (2) Xiaoyan Du, located at Burlingame, California,
- (3) Vinita Gupta, located at Edison, New Jersey,
- (4) Omar Laterza, located at New York, New York,
- (5) Linda Liang, located at Mountainview, California,
- (6) Eric Rimmer, located at Pacifica, California,

(hereinafter ASSIGNOR(S)), together with _____, located at _____, located at _____, and _____, located at _____, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

IMMUNOASSAY FOR SOLUBLE PD-L1

and/or in the following application(s):

- U.S. Provisional Application No. 62/047,310 filed on September 8, 2014;
- U.S. Application No. 14/843,285 having a filing date of 09/02/2015 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 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 28 day of September, 2015

Gulesi Ayanoglu
Gulesi Ayanoglu

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Santa Clara

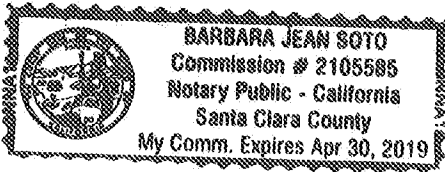
On Sept 28, 2015 before me, Barbara Jean Soto
Date Here Insert Name and Title of the Officer

Personally appeared Gulesi Ayanoglu
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.



Place Notary Seal Above

Signature: Barbara Jean Soto
Signature of Notary Public

Executed this 14 day of September, 2015.

Xiaoyan Du
Xiaoyan Du

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of Santa Clara

On _____ before me, Barbara J. Soto
Date *Here Insert Name and Title of the Officer*

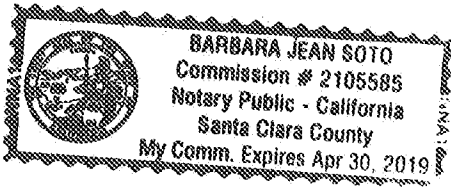
Personally appeared Xiaoyan Du
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: Barbara Jean Soto
Signature of Notary Public



Place Notary Seal Above

Executed this _____ day of _____, 20____.

Vinita Gupta

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

On this _____ day of _____, 20____, personally appeared before me **Vinita Gupta** 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____.

Omar Laterza

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

On this _____ day of _____, 20____, personally appeared before me **Omar Laterza** 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__.

Linda Liang

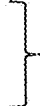
CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Eric Rimmer

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Gulesi Ayanoglu, located at Palo Alto, California,
- (2) Xiaoyan Du, located at Burlingame, California,
- (3) Vinita Gupta, located at Edison, New Jersey,
- (4) Omar Laterza, located at New York, New York,
- (5) Linda Liang, located at Mountainview, California,
- (6) Eric Rimmer, located at Pacifica, California,

(hereinafter ASSIGNOR(S)), together with _____, located at _____, located at _____, and _____, located at _____, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

IMMUNOASSAY FOR SOLUBLE PD-L1

and/or in the following application(s):

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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__.

Gulesi Ayanoglu

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Xiaoyan Du

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California }
County of _____ }

On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this 11 day of October, 2015.

Vinita Gupta
Vinita Gupta

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

See attached

On this _____ day of _____, 20____, personally appeared before me **Vinita Gupta** 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_____.

Omar Laterza

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

On this _____ day of _____, 20____, personally appeared before me **Omar Laterza** 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

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Contra Costa

On October 11 2015 before me, Cynthia Talbot Notary Public
(insert name and title of the officer)

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

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

WITNESS my hand and official seal.



Signature Cynthia Talbot (Seal)

Executed this ____ day of _____, 20__.

Linda Liang

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____

On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Eric Rimmer

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____

On _____ before me, _____
Date Here Insert Name and Title of the Officer

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20____.

Gulesi Ayanoglu

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California }
County of _____ }

On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Xiaoyan Du

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this _____ day of _____, 20____.

Vinita Gupta

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

On this _____ day of _____, 20____, personally appeared before me **Vinita Gupta** 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 14 day of SEPTEMBER, 20 15.

[Signature]
Omar Laterza

ACKNOWLEDGEMENT

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

On this 14th day of September, 20 15, personally appeared before me **Omar Laterza** 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)

[Signature: Katherine Mary Lally]
Notary Public

KATHERINE MARY LALLY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires June 20, 2017

Executed this ____ day of _____, 20__.

Linda Liang

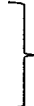
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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Eric Rimmer

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Civil Code § 1819

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State of California }
County of _____ }

On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Gulesi Ayanoglu, located at Palo Alto, California,
- (2) Xiaoyan Du, located at Burlingame, California,
- (3) Vinita Gupta, located at Edison, New Jersey,
- (4) Omar Laterza, located at New York, New York,
- (5) Linda Liang, located at Mountainview, California,
- (6) Eric Rimmer, located at Pacifica, California,

(hereinafter ASSIGNOR(S)), together with _____, located at _____, _____, located at _____, and _____, located at _____, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

IMMUNOASSAY FOR SOLUBLE PD-L1

and/or in the following application(s):

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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 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____.

Gulesi Ayanoglu

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of _____ }

On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20____.

Xiaoyan Du

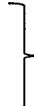
CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Vinita Gupta

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:
_____)

On this ____ day of _____, 20__, personally appeared before me **Vinita Gupta** 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__.

Omar Laterza

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:
_____)

On this ____ day of _____, 20__, personally appeared before me **Omar Laterza** 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 1st day of October, 2015

Linda Liang
Linda Liang

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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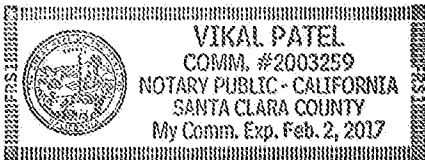
State of California

County of Santa Clara

On Oct. 01, 2015 before me, Vikal Patel, Notary Public
Date *Here Insert Name and Title of the Officer*

Personally appeared Linda Liang
Name (s) of Signer(s)

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



Place Notary Seal Above

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: [Signature]
Signature of Notary Public

Executed this ____ day of _____, 20____.

Eric Rimmer

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Gulesi Ayanoglu, located at Palo Alto, California,
- (2) Xiaoyan Du, located at Burlingame, California,
- (3) Vinita Gupta, located at Edison, New Jersey,
- (4) Omar Laterza, located at New York, New York,
- (5) Linda Liang, located at Mountainview, California,
- (6) Eric Rimmer, located at Pacifica, California,

(hereinafter ASSIGNOR(S)), together with _____, located at _____, located at _____, and _____, located at _____, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

IMMUNOASSAY FOR SOLUBLE PD-L1

and/or in the following application(s):

U.S. Provisional Application No. 62/047,310 filed on September 8, 2014;
U.S. Application No. 14/843,285 having a filing date of 09/02/2015 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 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____.

Gulesi Ayanoglu

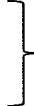
CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Xiaoyan Du

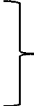
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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this ____ day of _____, 20__.

Vinita Gupta

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

On this ____ day of _____, 20__, personally appeared before me **Vinita Gupta** 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__.

Omar Laterza

ACKNOWLEDGEMENT

_____ of _____)
County of _____) s.s.:

On this ____ day of _____, 20__, personally appeared before me **Omar Laterza** 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__.

Linda Liang

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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State of California

County of _____



On _____ before me, _____
Date *Here Insert Name and Title of the Officer*

Personally appeared _____
Name (s) of Signer(s)

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

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

WITNESS my hand and official seal.

Signature: _____
Signature of Notary Public

Place Notary Seal Above

Executed this 26 day of August, 2015

[Signature]
Eric Rimmer

CALIFORNIA ALL PURPOSE ACKNOWLEDGEMENT

Civil Code § 1819

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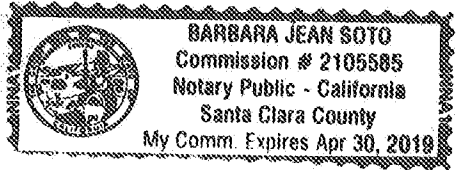
State of California

County of Santa Clara

On Aug 26, 2015 before me, Barbara Jean Soto
Date *Here Insert Name and Title of the Officer*

Personally appeared Eric Rimmer
Name (s) of Signer(s)

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



Place Notary Seal Above

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: [Signature]
Signature of Notary Public