

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6154726

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LIN YAN	06/11/2018
PEI HUO	06/11/2018
AHMET KEKEC	06/11/2018
YUPING ZHU	06/11/2018
DMITRI PISSARNITSKI	06/11/2018
DANQING D. FENG	06/11/2018
CHRIS MOYES	05/23/2018
ZHIQIANG ZHAO	06/11/2018
DAVID N. HUNTER	05/22/2018
SONGNIAN LIN	06/11/2018
<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>
Application Number:	16771819
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	732-594-7159
<b>Email:</b>	us_efs@merck.com
<b>Correspondent Name:</b>	MERCK SHARP & DOHME CORP.
<b>Address Line 1:</b>	126 EAST LINCOLN AVENUE
<b>Address Line 2:</b>	RY86-2011A
<b>Address Line 4:</b>	RAHWAY, NEW JERSEY 07065
<b>ATTORNEY DOCKET NUMBER:</b>	24559

PATENT

<b>NAME OF SUBMITTER:</b>	VIRGINIA M. FINNO-SORRENTINO
<b>SIGNATURE:</b>	/VIRGINIA M. FINNO-SORRENTINO/
<b>DATE SIGNED:</b>	06/16/2020
<b>Total Attachments: 13</b> source=24559-MSDC ASSIGN#page1.tif source=24559-MSDC ASSIGN#page2.tif source=24559-MSDC ASSIGN#page3.tif source=24559-MSDC ASSIGN#page4.tif source=24559-MSDC ASSIGN#page5.tif source=24559-MSDC ASSIGN#page6.tif source=24559-MSDC ASSIGN#page7.tif source=24559-MSDC ASSIGN#page8.tif source=24559-MSDC ASSIGN#page9.tif source=24559-MSDC ASSIGN#page10.tif source=24559-MSDC ASSIGN#page11.tif source=24559-MSDC ASSIGN#page12.tif source=24559-MSDC ASSIGN#page13.tif	

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) LIN YAN, located at East Brunswick, NJ,
- (2) PEI HUO, located at Millburn, NJ,
- (3) AHMET KEKEC, located at Hoboken, NJ,
- (4) YUPING ZHU, located at Basking Ridge, NJ,
- (5) DMITRI PISSARNITSKI, located at Scotch Plains, NJ
- (6) DANQING DENNIS FENG, located at Green brook, NJ *D.F.*
- (7) CHRIS MOYES, located at Westfield, NJ
- (8) ZHIQIANG ZHAO, located at Scotch Plains, NJ
- (9) DAVID HUNTER, located at Hatfield, PA
- (10) SONGNIAN LIN, located at Holmdel, NJ

hereinafter ASSIGNOR(S)), together with THOMAS M. LANCASTER, located at Wenham, MA and BENJAMIN CHEN, located at Winchester, MA, 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:

CONJUGATE BASED SYSTEMS FOR CONTROLLED INSULIN DELIVERY

and/or in the following application(s):

- U.S. Provisional Application No. 62/599997 filed on 12/18/2017 and 62/625491 filed on 2/2/2018;
- U.S. Application No. 16/771,819 having a filing date of 6/11/2020; and
- PCT International Application No. PCT/US2018/065321 having a filing date of 12/13/2018.

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 11<sup>th</sup> day of June, 2018.

[Signature]  
LIN YAN

[Signature]  
PEI HUO

[Signature]  
AHMET KEKEC

[Signature]  
YUPING ZHU

[Signature]  
DMITRI PISSARNITSKI

[Signature]  
DANGQING DENNIS FENG D.F.

[Signature]  
ZHIQIANG ZHAO

[Signature]  
SONGNIAN LIN

ACKNOWLEDGEMENT

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

On this 11<sup>th</sup> day of June, 2018, personally appeared before me **Lin Yan, Pei Huo, Ahmet Kecec, Yuping Zhu, Dmitri Pissarnitski, Dangqing Dennis Feng, Zhiqiang Zhao and Songnian Lin** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

[Signature]  
Notary Public

Executed this \_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
David N. Hunter

ACKNOWLEDGEMENT

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

On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, personally appeared before me **David N. Hunter** 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 \_\_\_\_\_, 2018\_.

\_\_\_\_\_  
**Chris Moyes**

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Chris Moyes** 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) LIN YAN, located at East Brunswick, NJ,
- (2) PEI HUO, located at Millburn, NJ,
- (3) AHMET KEKEC, located at Hoboken, NJ,
- (4) YUPING ZHU, located at Basking Ridge, NJ,
- (5) DMITRI PISSARNITSKI, located at Scotch Plains, NJ
- (6) DANQING DENNIS FENG, located at Green brook, NJ
- (7) CHRIS MOYES, located at Westfield, NJ
- (8) ZHIQIANG ZHAO, located at Scotch Plains, NJ
- (9) DAVID HUNTER, located at Hatfield, PA
- (10) SONGNIAN LIN, located at Holmdel, NJ

hereinafter ASSIGNOR(S)), together with THOMAS M. LANCASTER, located at Wenham, MA and BENJAMIN CHEN, located at Winchester, MA, 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:

CONJUGATE BASED SYSTEMS FOR CONTROLLED INSULIN DELIVERY

and/or in the following application(s):

U.S. Provisional Application No. 62/599997 filed on 12/18/2017 and 62/625491 filed on 2/2/2018;  
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 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.

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Executed this \_\_\_\_ day of \_\_\_\_\_, 2018\_.

\_\_\_\_\_  
LIN YAN

\_\_\_\_\_  
PEI HUO

\_\_\_\_\_  
AHMET KEKEC

\_\_\_\_\_  
YUPING ZHU

\_\_\_\_\_  
DMITRI PISSARNITSKI

\_\_\_\_\_  
DANGQING DENNIS FENG

\_\_\_\_\_  
ZHIQIANG ZHAO

\_\_\_\_\_  
SONGNIAN LIN

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Lin Yan, Pei Huo, Ahmet Kecec, Yuping Zhu, Dmitri Pissarnitski, Dangqing Dennis Feng, Zhiqiang Zhao and Songnian Lin** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

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

Executed this \_\_\_\_ day of \_\_\_\_\_, 2018\_.

\_\_\_\_\_  
David N. Hunter

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **David N. Hunter** 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 23 day of May, 2018.

*[Handwritten Signature]*  
Chris Moyes

ACKNOWLEDGEMENT

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

On this 23<sup>rd</sup> day of MAY, 2018, personally appeared before me **Chris Moyes** 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)

*[Handwritten Signature]*  
Notary Public

CHRISTINE M. KANELIDIS  
Notary Public of New Jersey  
I.D. # 2442057  
Commission Expires January 9, 2019



WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) LIN YAN, located at East Brunswick, NJ,
- (2) PEI HUO, located at Millburn, NJ,
- (3) AHMET KEKEC, located at Hoboken, NJ,
- (4) YUPING ZHU, located at Basking Ridge, NJ,
- (5) DMITRI PISSARNITSKI, located at Scotch Plains, NJ
- (6) DANQING DENNIS FENG, located at Green brook, NJ
- (7) CHRIS MOYES, located at Westfield, NJ
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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.

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Executed this \_\_\_\_ day of \_\_\_\_\_, 2018\_.

\_\_\_\_\_  
LIN YAN

\_\_\_\_\_  
PEI HUO

\_\_\_\_\_  
AHMET KEKEC

\_\_\_\_\_  
YUPING ZHU

\_\_\_\_\_  
DMITRI PISSARNITSKI

\_\_\_\_\_  
DANGQING DENNIS FENG

\_\_\_\_\_  
ZHIQIANG ZHAO

\_\_\_\_\_  
SONGNIAN LIN

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Lin Yan, Pei Huo, Ahmet Kecec, Yuping Zhu, Dmitri Pissarnitski, Dangqing Dennis Feng, Zhiqiang Zhao and Songnian Lin** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

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

Executed this 22 day of May, 2018\_.

David N. Hunter  
\_\_\_\_\_  
David N. Hunter

**ACKNOWLEDGEMENT**

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

On this 22 day of May, 2018, personally appeared before me **David N. Hunter** 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)

Ruth A. Culbreath  
\_\_\_\_\_  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Ruth A. Culbreath, Notary Public  
Upper Gwynedd Twp., Montgomery County  
My Commission Expires Aug. 17, 2020  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Executed this \_\_\_\_ day of \_\_\_\_\_, 2018\_.

\_\_\_\_\_  
Chris Moyes

**ACKNOWLEDGEMENT**

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

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Chris Moyes** 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

Accepted and agreed to by ASSIGNEE Merck Sharp & Dohme Corp.

Signature: 

Name: John C. Todaro

Title: Managing Counsel, Legal

Date: 7/13/18

**ACKNOWLEDGEMENT**

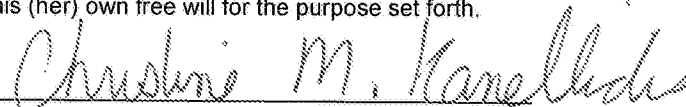
STATE of NEW JERSEY)

County of UNION )

) s.s.:

On this 13<sup>th</sup> day of July, 2018, personally appeared before me John C. Todaro to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
Christine M. Kanellidis

CHRISTINE M. KANELLIDIS  
Notary Public, State of New Jersey  
Commission Expires January 9, 2019