

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7966782

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KAI W WUCHERPFENNING	02/23/2019
DENG PAN	02/25/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DANA-FARBER CANCER INSTITUTE, INC.
<b>Street Address:</b>	450 BROOKLINE AVENUE
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02215
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16612935
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(678)406-8812
<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>	404-577-6000
<b>Email:</b>	tdavis@bakerdonelson.com
<b>Correspondent Name:</b>	BAKER DONELSON IP DEPARTMENT
<b>Address Line 1:</b>	3414 PEACHTREE ROAD
<b>Address Line 2:</b>	SUITE 1600
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30326
<b>ATTORNEY DOCKET NUMBER:</b>	5031461-000082-US2
<b>NAME OF SUBMITTER:</b>	TAMI DAVIS
<b>SIGNATURE:</b>	/tami davis/
<b>DATE SIGNED:</b>	05/19/2023
<b>Total Attachments: 7</b>	
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**ASSIGNMENT**

WHEREAS, we, Kai W. Wucherpennig and Deng Pan, have invented one or more inventions described in an application for Letters Patent of the United States, entitled **METHODS FOR SENSITIZING CANCER CELLS TO T CELL-MEDIATED KILLING BY MODULATING MOLECULAR PATHWAYS** the specification of which:

☐ is being executed herewith; and is about to be filed in the United States Patent Office;

☒ was filed on June 6, 2017 as U.S. Application No. 62/515738;

☐ was filed on \_\_\_\_\_ as PCT Application No. \_\_\_\_\_;

☐ was patented on \_\_\_\_\_ as U.S. Patent No. \_\_\_\_\_;

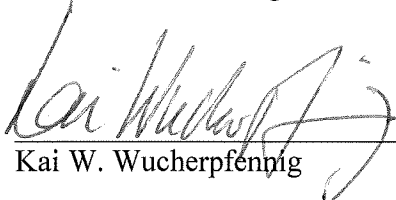
WHEREAS, **Dana-Farber Cancer Institute, Inc.**, (hereinafter "ASSIGNEE"), having principal offices at 450 Brookline Avenue, Boston, Massachusetts 02215-5450, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention(s) as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any substitution, reissue, continuation, divisional, revival and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; said invention(s), application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional, continuation or revival applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, the undersigned has hereunto set their hand and seal on the date after their signature.

  
Kai W. Wucherpennig

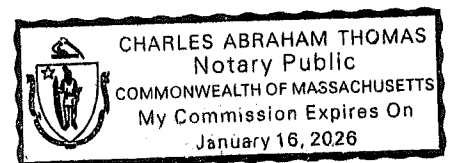
2/23/19  
(Date)

Commonwealth of Massachusetts)  
County of Suffolk)


On this the 23 day of February, 2019 before me personally appeared Kai W. Wucherpennig, to me personally known, and known to me to be the person who signed the foregoing assignment, and acknowledged the signing of same as their free act and deed.

  
Notary Public

My commission expires January 29, 2019



IN TESTIMONY WHEREOF, the undersigned has hereunto set their hand and seal on the date after their signature.

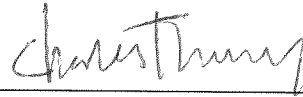
  
Deng Pan

02/25/2019  
(Date)

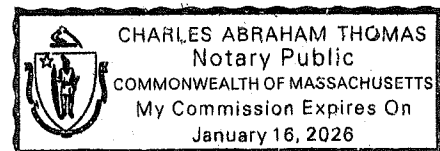
Commonwealth of Massachusetts)

County of )

On this the 25 day of February, 2019 before me personally appeared Deng Pan, to me personally known, and known to me to be the person who signed the foregoing assignment, and acknowledged the signing of same as their free act and deed.


  
Notary Public

My commission expires January 29, 2019.



ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of **Dana-Farber Cancer Institute, Inc.**,

By:  Date: 18 MAR 2019  
Name: **Hilary J. Libka, J.D.**  
Title: **Intellectual Property Counsel**

INVENTORS' ASSIGNMENT  
APPL. NO.: PCT/US2018/036046  
FI REF.: DFS-19025 (25992.19025)  
DPCI REF.: 2347.010

### ASSIGNMENT

WHEREAS, we, Deng Pan and Kai W. Wucherpennig, have invented one or more inventions described in an application for Letters Patent of the United States, entitled **METHODS FOR SENSITIZING CANCER CELLS TO T CELL-MEDIATED KILLING BY MODULATING MOLECULAR PATHWAYS** the specification of which:

- ☐ is being executed herewith; and is about to be filed in the United States Patent Office;
- ☐ was filed on \_\_\_\_\_ as U.S. Application No. \_\_\_\_\_;
- ☒ was filed on June 5, 2018 as PCT Application No. PCT/US2018/036046;
- ☐ was patented on \_\_\_\_\_ as U.S. Patent No. \_\_\_\_\_;

WHEREAS, Dana-Farber Cancer Institute, Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of Massachusetts, having principal offices at 450 Brookline Avenue, Boston, Massachusetts 02215-5450, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention(s) as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any substitution, reissue, continuation, divisional, revival and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; said invention(s), application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

INVENTORS' ASSIGNMENT  
APPL. NO.: PCT/US2018/036046  
FI REF.: DFS-19025 (25992.19025)  
DFCI REF.: 2347.010

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional, continuation or revival applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

WITNESS my hand this 20 day of June, 2018.

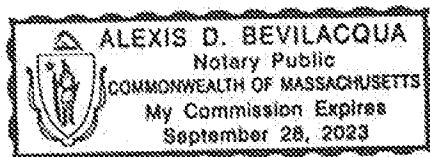
By: 


**Deng Pan**

Commonwealth of Massachusetts )

County of Suffolk )

On this the 20 day of June, 2018, before me personally appeared **Deng Pan**, to me personally known, and known to me to be the person who signed the foregoing assignment, and acknowledged the signing of same as her free act and deed.



  
Notary Public

My commission expires September 28, 2023



INVENTORS' ASSIGNMENT  
APPL. NO.: PCT/US2018/036046  
FI REF.: DFS-19025 (25992.19025)  
DECT REF.: 2347.010

WITNESS my hand this 20 day of June, 2018.

By: Kai Wucherpfennig

Kai W. Wucherpfennig

Commonwealth of Massachusetts )  
County of Suffolk )

On this the 20 day of June, 2018, before me personally appeared **Kai W. Wucherpfennig**, to me personally known, and known to me to be the person who signed the foregoing assignment, and acknowledged the signing of same as her free act and deed.

Alvin D. Bevilacqua  
Notary Public

My commission expires September 28, 2023

