504421644 06/20/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
CATHERINE JU-YING WU	01/13/2016

RECEIVING PARTY DATA

Name:	DANA-FARBER CANCER INSTITUTE, INC.	
Street Address:	450 BROOKLINE AVENUE	
City:	BOSTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02215	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15537785

CORRESPONDENCE DATA

Fax Number: (212)407-7799

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.

Phone: 2124077700

Email: ipdocketny@vedderprice.com

Correspondent Name: THOMAS J. KOWALSKI

Address Line 1: 1633 BROADWAY
Address Line 2: VEDDER PRICE P.C.

Address Line 4: NEW YORK, NEW YORK 10019

ATTORNEY DOCKET NUMBER:	47608.01.2004	
NAME OF SUBMITTER:	JOSHUA HAMLET	
SIGNATURE:	/Joshua Hamlet/	
DATE SIGNED:	06/20/2017	

Total Attachments: 2

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PATENT 504421644 REEL: 042913 FRAME: 0886

ASSIONMENT

 Catherine Ju-Ving Wu, residing at: 117 Mason Terrace, Brookline, MA 02446, USA. being the inventor of certain improvements in the international application entitled: METHODS FOR PROFILING THE T CELL REPERTOIRE for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto DANA-FARBER CANCER INSTITUTE, INC. baving a place of business at 450 Brookline Ave., Boston, MA 02215, USA, its successors and assigns (1) the entire right, title and interest in all countries throughout the world in and to any and all of my inventions and discoveries in my United States Provisional Application No. 62/094,859 filed December 19, 2014 and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (ROIUS) on December 21, 2015, identified as International Application No. PCT/US15/67154. and designating all PCT member countries/states, as well as in any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of DANA-FARBER CANCER INSTITUTE, INC., or their designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right title and interest in and to any Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following application:

United States Provisional Application No. 62/094,859 filed December 19, 2014 and all rights of priority in any country of the world deriving from the above-identified International Application.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to DANA-FARBER CANCER INSTITUTE, INC, as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of DANA-FARBER CANCER INSTITUTE, INC. to execute and to deliver to DANA-FARBER CANCER INSTITUTE, INC. any

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PATENT REEL: 042913 FRAME: 0887 additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree, at any time, upon request of DANA-FARBER CANCER INSTITUTE, INC., to execute and to deliver to DANA-FARBER CANCER INSTITUTE, INC., such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do what is necessary to give full effect to and to perfect any and all rights of DANA-FARBER CANCER INSTITUTE, INC., under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

In testimony of which I have hereupon affixed my signature it is my intention that this Assignment instrument be effective, and all rights transferred herein shall be considered to have vested in DANA-FARBER CANCER INSTITUTE, INC. as from the December 19, 2014 the filing date of the first filed United States Provisional Application No. 62/094,859 from which

filing date of the first filed Unit	a State	es Provisional Application (vo. 02/074,809 from which
priority is hereby claimed.		
1/13/74 Date		
Date (Catherine Ju-Ying Wu
Commonwealth of Massachusetts)	
)	SS
COUNTY OF SOME)	, a Notary Public in and for the county and
i, <u>Lon Renevis</u>		, a Notary Public in and for the county and
Commonwealth aforesaid, do here to be the same person whose name	by cert is sub- ged tha	tify that <u>Catherine Ju-Ying Wu</u> , personally known to moscribed to the foregoing instrument, appeared before most the signed and delivered the said instrument as his free
IN WITNESS WHEREOF, I have	hereun	nto set my hand and Notarial Seal, this <u>/3</u> day of

SEAL 2016.

- 2016.

- Folary Public

My Commission Expires: 3/1/22

PATENT REEL: 042913 FRAME: 0888

RECORDED: 06/20/2017

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