



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 16, 2016

PTAS

C. RACHAL WINGER, PH.D.
601 WEST RIVERSIDE AVENUE, SUITE 1400
SPOKANE, WA 99201

503826611

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 05/13/2016

REEL/FRAME: 038594/0859
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: F053-0046USP1

ASSIGNOR:
STEPHAN, MATTHIAS

DOC DATE: 04/15/2016

ASSIGNOR:
MOFFETT, HOWELL F.

DOC DATE: 05/06/2016

ASSIGNEE:
FRED HUTCHINSON CANCER RESEARCH
CENTER
1100 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON 98109

APPLICATION NUMBER: 62322581

FILING DATE: 04/14/2016

PATENT NUMBER:

ISSUE DATE:

TITLE: COMPOSITIONS AND METHODS TO PROGRAM THERAPEUTIC CELLS USING
TARGETED NUCLEIC ACID NANOCARRIERS

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3873261

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MATTHIAS STEPHAN	04/15/2016
HOWELL F. MOFFETT	05/06/2016
RECEIVING PARTY DATA	
Name:	FRED HUTCHINSON CANCER RESEARCH CENTER
Street Address:	1100 FAIRVIEW AVENUE NORTH
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98109
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	62322581
CORRESPONDENCE DATA	
Fax Number:	(509)323-8979
<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:	2068766007
Email:	SUZANNEC@LEE HAYES.COM
Correspondent Name:	C. RACHAL WINGER, PH.D.
Address Line 1:	601 WEST RIVERSIDE AVENUE, SUITE 1400
Address Line 4:	SPOKANE, WASHINGTON 99201
ATTORNEY DOCKET NUMBER:	F053-0046USP1
NAME OF SUBMITTER:	SUZANNE CARTER
SIGNATURE:	/SUZANNE CARTER/
DATE SIGNED:	05/13/2016
Total Attachments: 3	
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ASSIGNMENT

WHEREAS, WE, Matthias Stephan and Howell F. Moffett, have invented certain new and useful inventions disclosed in U.S. Provisional Patent Application No. 62/322,581, entitled "COMPOSITIONS AND METHODS TO PROGRAM THERAPEUTIC CELLS USING TARGETED NUCLEIC ACID NANOCARRIERS " (the Application);

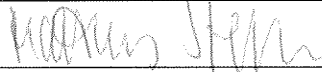
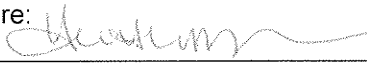
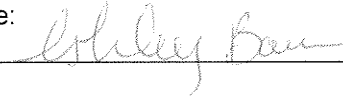
WHEREAS, Fred Hutchinson Cancer Research Center, a corporation under the laws of the State of Washington having offices at 1100 Fairview Avenue North, J2-305 Seattle, WA 98109, the ASSIGNEE herein, has acquired the entire right to, title to, and interest in said inventions, improvements to the inventions, the Application, and subsequent applications described below, and any Letters Patent to be granted and issued thereon, including the right to claim priority to the Application;

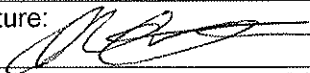
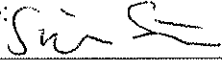
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over to ASSIGNEE the entire right to, title to, and interest in said inventions, improvements, the Application, and all applications claiming priority thereto including all utility filings and all divisions, continuations, and continuations-in-part thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations, and extensions thereof; and all priority rights under all available International Agreements, Treaties, and Conventions for the protection of intellectual property in its various forms in every participating country, all national and regional applications deriving therefrom, and all subsequent patents and divisional patents, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said inventions and/or improvements in any foreign countries, and all patents (including all continuations, continuations-in-part, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said inventions and/or improvements in any foreign countries; and we hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said inventions and/or improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND WE HEREBY covenant that we have full right to convey the entire interest herein sold, assigned, transferred, and set over; and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said inventions, improvements, the Application, and applications claiming priority thereto, testify in any legal proceeding, sign all lawful papers, execute all documents for subsequent patent filings, make all rightful oaths, and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said inventions and/or improvements in all countries.

The undersigned hereby grant to the firm of Lee & Hayes, PLLC, 601 West Riverside Avenue, Suite 1400, Spokane, WA 99201, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAME AND SIGNATURE OF ASSIGNOR		
Name: Matthias Stephan	Signature: 	Date: 4/15/16
NAMES AND SIGNATURES OF WITNESSES		
Name: Heather Persinger	Signature: 	Date: 4/15/16
Name: Ashley Barnes	Signature: 	Date: 4/15/16

NAME AND SIGNATURE OF ASSIGNOR		
Name: Howell F. Moffett	Signature: 	Date: 5/5/16
NAMES AND SIGNATURES OF WITNESSES		
Name: Laura McKnight	Signature: 	Date: 05/06/16
Name: Sirkka Stephens	Signature: 	Date: 5/6/16



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 18, 2017

PTAS

C. RACHAL WINGER, PH.D.
601 WEST RIVERSIDE AVENUE, SUITE 1400
SPOKANE, WA 99201

504181510

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 01/17/2017

REEL/FRAME: 040992/0680
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: F053-0046USP2

ASSIGNOR:
STEPHAN, MATTHIAS

DOC DATE: 01/07/2017

ASSIGNOR:
MOFFETT, HOWELL F.

DOC DATE: 01/06/2017

ASSIGNEE:
FRED HUTCHINSON CANCER RESEARCH
CENTER
1100 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON 98109

APPLICATION NUMBER: 62442890

FILING DATE: 01/05/2017

PATENT NUMBER:

ISSUE DATE:

TITLE: COMPOSITIONS AND METHODS TO PROGRAM THERAPEUTIC CELLS USING
TARGETED NUCLEIC ACID NANOCARRIERS

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4229143

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MATTHIAS STEPHAN	01/07/2017
HOWELL F. MOFFETT	01/06/2017
RECEIVING PARTY DATA	
Name:	FRED HUTCHINSON CANCER RESEARCH CENTER
Street Address:	1100 FAIRVIEW AVENUE NORTH
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98109
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	62442890
CORRESPONDENCE DATA	
Fax Number:	(509)323-8979
<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:	2068766007
Email:	SUZANNEC@LEE HAYES.COM
Correspondent Name:	C. RACHAL WINGER, PH.D.
Address Line 1:	601 WEST RIVERSIDE AVENUE, SUITE 1400
Address Line 4:	SPOKANE, WASHINGTON 99201
ATTORNEY DOCKET NUMBER:	F053-0046USP2
NAME OF SUBMITTER:	SUZANNE CARTER
SIGNATURE:	/Suzanne Carter/
DATE SIGNED:	01/17/2017
Total Attachments: 3	
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source=1LY7653#page3.tif	

ASSIGNMENT

WHEREAS, WE, Matthias Stephan and Howell F. Moffett, have invented certain new and useful inventions disclosed in U.S. Provisional Patent Application No. 62/442,890, entitled "COMPOSITIONS AND METHODS TO PROGRAM THERAPEUTIC CELLS USING TARGETED NUCLEIC ACID NANOCARRIERS" (the Application), filed January 5, 2017;

WHEREAS, Fred Hutchinson Cancer Research Center, a corporation under the laws of the State of Washington having offices at 1100 Fairview Avenue North, J2-305 Seattle, WA 98109, the ASSIGNEE herein, has acquired the entire right to, title to, and interest in said inventions, improvements to the inventions, the Application, and subsequent applications described below, and any Letters Patent to be granted and issued thereon, including the right to claim priority to the Application;

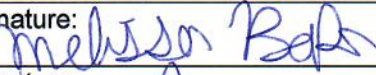
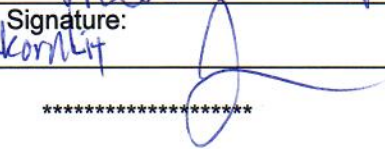
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over to ASSIGNEE the entire right to, title to, and interest in said inventions, improvements, the Application, and all applications claiming priority thereto including all utility filings and all divisions, continuations, and continuations-in-part thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations, and extensions thereof; and all priority rights under all available International Agreements, Treaties, and Conventions for the protection of intellectual property in its various forms in every participating country, all national and regional applications deriving therefrom, and all subsequent patents and divisional patents, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said inventions and/or improvements in any foreign countries, and all patents (including all continuations, continuations-in-part, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said inventions and/or improvements in any foreign countries; and we hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said inventions and/or improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND WE HEREBY covenant that we have full right to convey the entire interest herein sold, assigned, transferred, and set over; and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said inventions, improvements, the Application, and applications claiming priority thereto, testify in any legal proceeding, sign all lawful papers, execute all documents for subsequent patent filings, make all rightful oaths, and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said inventions and/or improvements in all countries.

The undersigned hereby grant to the firm of Lee & Hayes, PLLC, 601 West Riverside Avenue, Suite 1400, Spokane, WA 99201, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAME AND SIGNATURE OF ASSIGNOR		
Name: Matthias Stephan	Signature: 	Date: 1/7/17
NAMES AND SIGNATURES OF WITNESSES		
Name: HELEN BROWN	Signature: 	Date: 1/7/17
Name: Sirkka Stephan	Signature: 	Date: 1/6/17

NAME AND SIGNATURE OF ASSIGNOR		
Name: Howell F. Moffett	Signature: 	Date: 1/6/2017
NAMES AND SIGNATURES OF WITNESSES		
Name: Melissa Baker	Signature: 	Date: 1/6/2017
Name: Jim Boonyaratankornkit	Signature: 	Date: 1/6/2017

Original (for **SUBMISSION**)

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	In relation to this international application FRED HUTCHINSON CANCER RESEARCH CENTER is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i v)		an assignment from STEFAN, Matthias to FRED HUTCHINSON CANCER RESEARCH CENTER, dated 15 April 2016 (15.04.2016)
VIII-2-1(i v)		an assignment from MOFFETT, Howell F. to FRED HUTCHINSON CANCER RESEARCH CENTER, dated 06 May 2016 (06.05.2016)