

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4528003

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL F. CONCINO	10/02/2015
BETTINA STRACK-LOGUE	09/24/2015
MUTHURAMAN MEIYAPPAN	09/24/2015
ANGELA W. NORTON	09/24/2015
BOHONG ZHANG	09/24/2015
ANDREA ISKENDERIAN	09/24/2015
LIEH YOON LOW	09/30/2015
DIANNA LUNDBERG	09/24/2015
ALLA ROMASHKO	09/24/2015
HICHAM NAIMY	10/13/2015
RECEIVING PARTY DATA	
Name:	SHIRE HUMAN GENETIC THERAPIES, INC.
Street Address:	300 SHIRE WAY
City:	LEXINGTON
State/Country:	MASSACHUSETTS
Postal Code:	02421
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15503223
CORRESPONDENCE DATA	
Fax Number:	(617)526-9899
<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:	(617) 526-9706
Email:	shynes@proskauer.com
Correspondent Name:	PROSKAUER ROSE LLP
Address Line 1:	ONE INTERNATIONAL PLACE
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	SHR-1164US

NAME OF SUBMITTER:	FANGLI CHEN
SIGNATURE:	/Fangli Chen, Reg. No. 51,551/
DATE SIGNED:	07/31/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 14

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COMBINED JOINT ASSIGNMENT & DECLARATION

A. ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Michael F. Concino	Lexington, Massachusetts
2. Bettina Strack-Logue	Lexington, Massachusetts
3. Muthuraman Meiyappan	Lexington, Massachusetts
4. Angela W. Norton	Lexington, Massachusetts
5. Bohong Zhang	Lexington, Massachusetts
6. Andrea Iskenderian	Lexington, Massachusetts
7. Lih Yoon Low	Lexington, Massachusetts
8. Dianna Lundberg	Lexington, Massachusetts
9. Alla Romashko	Lexington, Massachusetts
10. Hicham Naimy	Lexington, Massachusetts

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

TARGETED THERAPEUTICS AND USES THEREOF; and

prepared for filing in the United States Patent and Trademark Office; or

identified by United States Application Serial No. _____
filed in the United States Patent and Trademark Office on; _____; and

identified by International Patent Application No. PCT/US2015/044713
filed on August 11, 2015; and

and is also aware of the following priority applications:

Serial No.	Filed
62/036,082	August 11, 2014

WHEREAS, Shire Human Genetic Therapies, Inc. (hereinafter "ASSIGNEE"), having a usual place of business at 300 Shire Way, Lexington, Massachusetts 02421, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, each of us has sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above, including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. Our sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including any divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by each of us had this sale, assignment and transfer not been made;

AND, each of us hereby acknowledges that this Assignment, being of our entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, each of us hereby further agrees 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 patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts we know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, each of us further hereby authorizes ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, each of us hereby appoints ASSIGNEE as our common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, each of us hereby requests the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, each of us covenants with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

B. DECLARATION (37 CFR 1.63)

As below named inventors, we hereby declare that:

This declaration is directed to the patent application entitled:

TARGETED THERAPEUTICS AND USES THEREOF; and

attached hereto or prepared for filing in the United States Patent and Trademark Office; or

identified by United States Application Serial No. _____
filed in the United States Patent and Trademark Office on _____; or

identified by International Patent Application No. PCT/US2015/044713
filed on August 11, 2015.

The above-identified application was made or authorized to be made by us.

We believe that we are the original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the application, including the claims and are aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

Inventor Signature: Michael E. Concino 10/2/15
Print Inventor Name: Michael E. Concino Date:
Address: _____

Witness Signature: [Signature]
Print Witness Name: Linda Concino
Address: 297 Long Hill Rd.
Boston, MA 02240

Witness Signature: [Signature]
Print Witness Name: Linda Gladu Ennis
Address: 12 Clydeville Ave.
Pelham, NH 03076

SIGNED this 24th day of September, 20 15

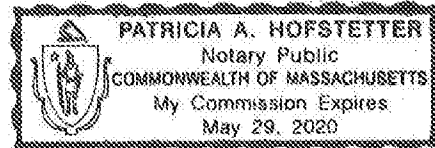
Bettina Strack-Logue
Bettina Strack-Logue

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 24 day of September, 2015, personally appeared Bettina Strack-Logue, and proved to me through satisfactory evidence of identity which was license to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Patricia A. Hofstetter
Name: _____
My Commission Expires: _____



SIGNED this 24 day of Sep, 2014

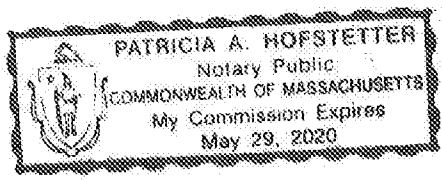
Muthuraman Meiyappan
Muthuraman Meiyappan

STATE OF Massachusetts SS.

COUNTY OF Middlesex

Before me this 24 day of September, 2015, personally appeared Muthuraman Meiyappan, and proved to me through satisfactory evidence of identity which was license to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC
Patricia A Hofstetter
Name: _____
My Commission Expires: _____



SIGNED this 24 day of September, 2015

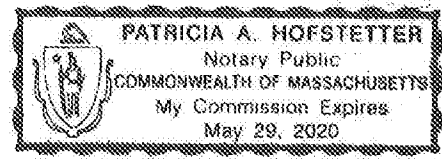
Angela W. Norton
Angela W. Norton

STATE OF Massachusetts SS.

COUNTY OF Middlesex

Before me this 24 day of September, 2015, personally appeared Angela W. Norton, and proved to me through satisfactory evidence of identity which was license to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC
Patricia A. Hofstetter
Name: _____
My Commission Expires: _____



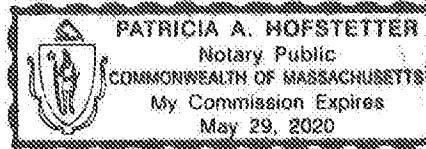
SIGNED this 24th day of September, 2015

Bohong Zhang
Bohong Zhang

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 24 day of September, 2015, personally appeared
Bohong Zhang, and proved to me through satisfactory
evidence of identity which was Witness to be the person whose name is
signed on the preceding or attached document, and acknowledged that he/she executed the
same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC
Patricia A. Hofstetter
Name: _____
My Commission Expires: _____



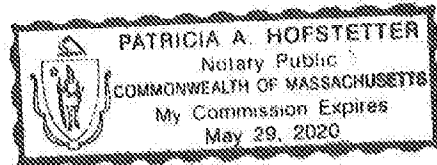
SIGNED this 24 day of September, 2015

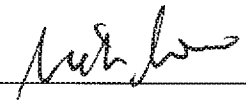
A. Iskenderian
Andrea Iskenderian

STATE OF Massachusetts SS.
COUNTY OF Middlesex

Before me this 24 day of September, 2015, personally appeared
Andrea Iskenderian, and proved to me through satisfactory
evidence of identity which was License to be the person whose name is
signed on the preceding or attached document, and acknowledged that he/she executed the
same, of his/her own free will and for the purposes set forth.


NOTARY PUBLIC
Patricia A Hofstetter
Name: _____
My Commission Expires: _____



Inventor Signature:  9/30/15

Print Inventor Name: Lich Yoon Low Date: _____

Address: _____

Witness Signature: 

Print Witness Name: STEPHEN G. SMITH

Address: 3 VIA MONTE, NEWBURY PARK CA.
91320

Witness Signature: 

Print Witness Name: Sheila Berg Ne

Address: 2822 White Ridge Rd Apt #28
Thousand Oaks CA 91362

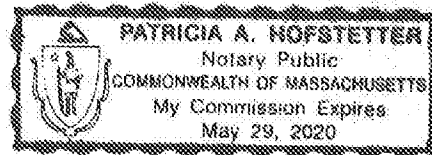
SIGNED this 24 day of September, 2015

Dianna Lundberg
Dianna Lundberg

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 24 day of September, 2015, personally appeared
Dianna Lundberg, and proved to me through satisfactory
evidence of identity which was license to be the person whose name is
signed on the preceding or attached document, and acknowledged that he/she executed the
same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC
Patricia A Hofstetter
Name: _____
My Commission Expires: _____



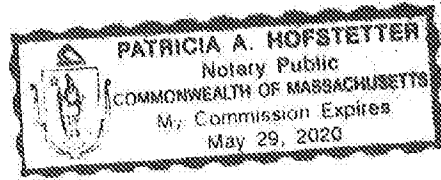
SIGNED this 24 day of September, 2015

Roman
Alla Romashko

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 24 day of September, 2015, personally appeared
Alla Romashko, and proved to me through satisfactory
evidence of identity which was license to be the person whose name is
signed on the preceding or attached document, and acknowledged that he/she executed the
same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC
Patricia A. Hofstetter
Name: _____
My Commission Expires: _____



SIGNED this 13th day of October, 2015

[Signature]
Hicham Naimy

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 13 day of October, 2015, personally appeared
Hicham Naimy, and proved to me through satisfactory
evidence of identity which was license to be the person whose name is
signed on the preceding or attached document, and acknowledged that he/she executed the
same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC
Patricia A Hofstetter
Name: _____
My Commission Expires: _____

