

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3028284

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRAYDON CHARLES GUILD	07/09/2014
FRANK DEROSA	07/02/2014
MICHAEL HEARTLEIN	07/02/2014
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:	14308546
CORRESPONDENCE DATA	
Fax Number:	(617)502-5002
<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:	617-248-5000
Email:	patentdocket@choate.com
Correspondent Name:	CHOATE, HALL & STEWART LLP
Address Line 1:	2 INTERNATIONAL PLACE
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	2006685-0586
NAME OF SUBMITTER:	FANGLI CHEN
SIGNATURE:	/Fangli Chen/
DATE SIGNED:	09/18/2014
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 6	
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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. Braydon Charles Guild	Concord, MA
2. Frank DeRosa	Chelmsford, MA
3. Michael Heartlein	Boxborough, MA

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:

LIPID NANOPARTICLE COMPOSITIONS AND METHODS FOR MRNA DELIVERY; and

- prepared for filing in the United States Patent and Trademark Office; or
- identified by United States Application Serial No. 14/308,546 filed in the United States Patent and Trademark Office on June 18, 2014; and
- identified by International Patent Application No. Serial No. filed on Filing Date; and
- is also aware of the following priority applications:

Serial No.: 14/124,608; Filed: March 5, 2014
 Serial No.: PCT/US2012/041724; Filed: June 8, 2012
 Serial No.: 61/494,881; Filed: June 8, 2011

WHEREAS Shire Human Genetic Therapies, Inc. (hereinafter "ASSIGNEE"), having a usual place of business at 300 Shire Way, Lexington, MA 02421 United States of America, 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, I have 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. My 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 to 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 me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my 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, I hereby further agree for myself and my 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 I 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, I further hereby authorize 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, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, I hereby request 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, I covenant 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 me, and that full right to convey the same as herein expressed is possessed by me.

B. DECLARATION (37 CFR 1.63)

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

LIPID NANOPARTICLE COMPOSITIONS AND METHODS FOR MRNA DELIVERY;
and

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

identified by United States Application Serial No. 14/398,546 filed in the United States Patent and Trademark Office on June 18, 2014; or

identified by International Patent Application No. Serial No. filed on Filing Date.

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

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I 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.

I have reviewed and understand the contents of the application, including the claims and am 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.

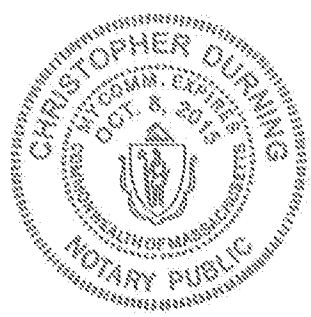
SIGNED this 9 day of July, 2014

Braydon Charles Guild
Name: Braydon Charles Guild

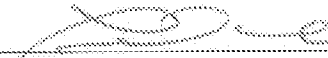
STATE OF MA.
COUNTY OF Middlesex SS.

Before me this 9th day of July, 2014, personally appeared Braydon Charles Guild, and proved to me through satisfactory evidence of identity which was a license and ID 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 Christopher E. Durning
Name: Christopher Durning
My Commission Expires: _____



SIGNED this 2nd day of July, 2014.

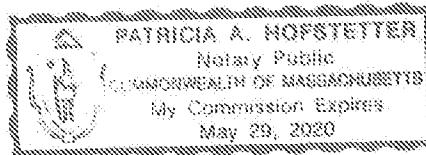

Name: Frank DeRosa

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 2 day of July, 2014, personally appeared Frank DeRosa, and proved to me through satisfactory evidence of identity which was Reverse 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

Name: _____
My Commission Expires: _____



SIGNED this 2nd day of July, 2014.

[Handwritten Signature]

Name: Michael Heartlein

STATE OF Massachusetts SS.

COUNTY OF Middlesex

Before me this 2 day of July, 2014, personally appeared Michael Heartlein, 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

[Handwritten Signature: Patricia A. Hofstetter]

Name:

My Commission Expires:

