

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6910338

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	FARAH NATOLI	08/05/2011
	GAOZHONG ZHU	08/08/2011
	JENNIFER TEREW	08/15/2011
	YUAN JIANG	08/04/2011
	JAMIE TSUNG	08/05/2011
	ZAHRA SHAHROKH	08/05/2011
	BRIAN VERNAGLIA	08/11/2011
	JING PAN	08/05/2011
	RICHARD PFEIFER	08/04/2011
	PERICLES CALIAS	08/17/2011
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:	17350860	
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:	617-526-9633	
Email:	tamoore@proskauer.com	
Correspondent Name:	PROSKAUER ROSE LLP	
Address Line 1:	ONE INTERNATIONAL PLACE	
Address Line 4:	BOSTON, MASSACHUSETTS 02110	
ATTORNEY DOCKET NUMBER:	SHR-1029CUS4	

NAME OF SUBMITTER:	FANGLI CHEN, PH.D.
SIGNATURE:	/Fangli Chen, Reg. No. 51,551/
DATE SIGNED:	09/10/2021
Total Attachments: 12 source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page1.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page2.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page3.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page4.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page5.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page6.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page7.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page8.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page9.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page10.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page11.tif source=SHR-1029CUS4 - Executed Joint Assignment (Copy from SHR-1029CUS1)#page12.tif	

JOINT ASSIGNMENT

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

Inventor Name	City, State Zip
1. Farah Natoli	Georgetown, MA 01833
2. Gaozhong Zhu	Weston, MA 02493
3. Jennifer Terew	Concord, MA 01742
4. Yuan Jiang	Londonderry, NH 03053
5. Jamie Tsung	Wellesley, MA 02482
6. Zahra Shahrokh	Weston, MA 02493
7. Brian Vernaglia	Winchester, MA 01890
8. Jing Pan	Boxborough, MA 01719
9. Richard Pfeifer	North Granby, CT 06060
10. Pericles Calias	Melrose, MA 02176

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 applications entitled:

**METHODS AND COMPOSITIONS FOR CNS DELIVERY OF HEPARAN
N-SULFATASE; and**

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

☒ identified by United States Application Serial No. **13/168,957** and International Application No. **PCT/US11/41922** both filed in the United States Patent and Trademark Office on **June 25, 2011**; and

☒ and am also aware of the following priority applications:

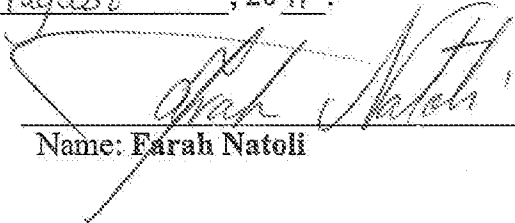
Serial No.: 61/358,857; Filed: June 25, 2010
Serial No.: 61/360,786; Filed: July 1, 2010
Serial No.: 61/387,862; Filed: September 29, 2010
Serial No.: 61/435,710; Filed: January 24, 2011
Serial No.: 61/442,115; Filed: February 11, 2011
Serial No.: 61/476,210; Filed: April 15, 2011
Serial No.: 61/495,268; Filed: June 9, 2011

WHEREAS **Shire Human Genetic Therapies, Inc.** (hereinafter "ASSIGNEE"), having a usual place of business at **700 Main Street, Cambridge, MA 02139**, desires to acquire or confirm an interest therein;

AND, I hereby request the Director of Patents and Trademarks of the United States 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.

SIGNED this 05 day of August, 20 11.


Name: Farah Natoli

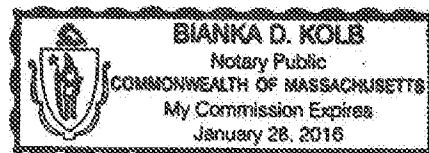
STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 5th day of August, 20 11, personally appeared Farah Natoli, and proved to me through satisfactory evidence of identity which was known to me 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: Bianca Kolb

My Commission Expires: Jan. 28, 2016



SIGNED this 08 day of August, 20 11


Name: Gaozhong Zhu

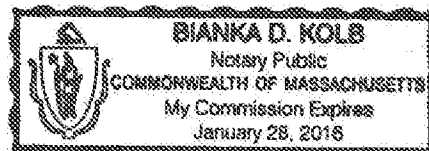
STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 8th day of August, 20 11, personally appeared Gaozhong Zhu, and proved to me through satisfactory evidence of identity which was known to me 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: Bianka Kolb

My Commission Expires: Jan. 28, 2016



SIGNED this 15th day of August, 20 11.

Jennifer Terew
Name: Jennifer Terew

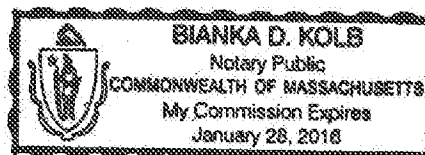
STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 15th day of August, 20 11, personally appeared Jennifer Terew, and proved to me through satisfactory evidence of identity which was known to me 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 Bianka Kolb

Name: Bianka Kolb

My Commission Expires: Jan. 28, 2016



SIGNED this 4th day of August, 2011.

Yuan Jiang
Name: Yuan Jiang

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 4th day of August, 2011, personally appeared Yuan Jiang, and proved to me through satisfactory evidence of identity which was known to me 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.

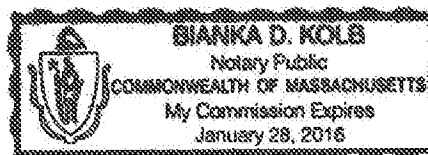
NOTARY PUBLIC

Bianka Koles
Name:

My Commission Expires:

Bianka Koles

Jan. 28, 2016



SIGNED this 05 day of August, 2011.

[Signature]
Name: Jamie Tsung

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 5th day of August, 2011, personally appeared Jamie Tsung and proved to me through satisfactory evidence of identity which was known to me 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

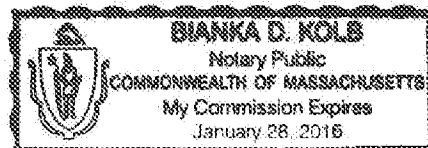
Name:

My Commission Expires:

[Signature]

Bianka Kolb

Jan. 28, 2016



SIGNED this 05 day of Aug, 20 11.

Zahra Shahrokhi
Name: Zahra Shahrokhi

STATE OF

Massachusetts

SS.

COUNTY OF

Middlesex

Before me this 5th day of August, 20 11, personally appeared Zahra Shahrokhi, and proved to me through satisfactory evidence of identity which was known to me 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.

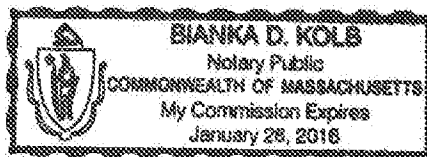
NOTARY PUBLIC

Name:

Bianka Kolb

My Commission Expires:

Jan. 28, 2016



SIGNED this 11 day of August, 2011.

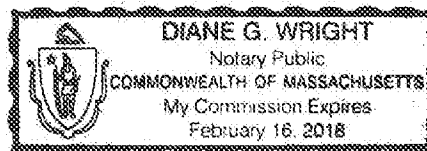
Brian Vernaglia
Name: Brian Vernaglia

STATE OF MASSACHUSETTS SS.
COUNTY OF SUFFOLK

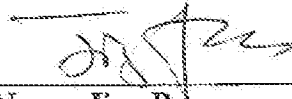
Before me this 11 day of August, 2011, personally appeared ^{Brian}Vernaglia, and proved to me through satisfactory evidence of identity which was driver license to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Diane G. Wright
Name: DANE G. WRIGHT
My Commission Expires: 2/16/2018



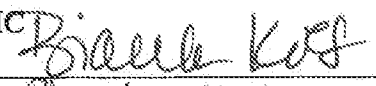
SIGNED this 5th day of August, 20 11.

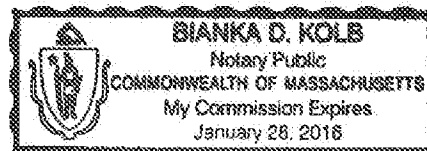

Name: Jing Pan

STATE OF Massachusetts SS.
COUNTY OF Middlesex

Before me this 5th day of August, 20 11, personally appeared Jing Pan, and proved to me through satisfactory evidence of identity which was known to me 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: Biana Kolb
My Commission Expires: Jan. 28, 2016



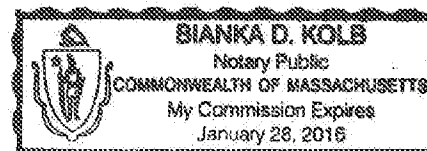
SIGNED this 4th day of August, 2011.

[Signature]
Name: Richard Pfeifer


STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 4th day of August, 2011, personally appeared Richard Pfeifer and proved to me through satisfactory evidence of identity which was known to me 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 [Signature]
Name: Bianka Kolb
My Commission Expires: Jan. 28, 2016



SIGNED this 17 day of August, 20 11.



Name: Pericles Calias

STATE OF Massachusetts SS.

COUNTY OF Middlesex

Before me this 17 day of August, 20 11, personally appeared Pericles Calias, and proved to me through satisfactory evidence of identity which was MA Drivers 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


Name: James P. [Signature]

My Commission Expires: 08 Dec 2017