## 504876633 04/19/2018

# PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GERALD SPOTTS	03/02/2018
ROMAN PICHLER	02/14/2018
MICHAEL NELSON	02/20/2018

### **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:	15876827

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	SHIR-001/01US33543/61	
NAME OF SUBMITTER:	THOMAS C. MEYERS	
SIGNATURE:	/Thomas C. Meyers/	
DATE SIGNED:	04/19/2018	

## **Total Attachments: 6**

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PATENT 504876633 REEL: 045588 FRAME: 0922

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PATENT REEL: 045588 FRAME: 0923

#### ASSIGNMENT

WHEREAS, we; the below named inventors,

## Gerald Spotts, Roman Pichler and Michael Nelson

hereinafter referred to as "Assignor(s)" have made an invention(s), hereinafter referred to as the "Invention(s)," set forth in an application for patent, entitled DRUG MONITORING TOOL, which is a United States non-provisional application bearing Application No. 15/876,827, and filed on January 22, 2018; and

WHEREAS, SHIRE HUMAN GENETIC THERAPIES, INC. of 300 Shire Way, Lexington, Massachusetts 02421 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Inventions; the applications for patent identified above; the right to file applications for patent of the United States or other countries on the Inventions; any application for patent of the United States or other countries claiming priority to these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignors have not done so already via a prior agreement with the Assignee, or if the Assignors have already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignors have sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignors' entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified above or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made.

The Assignors hereby represent to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignors are lawful owners of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that the Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignors hereby request the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

State of $\frac{Cachees.s}{County of \frac{lor Annexes}{}}$ ) ss.	
On Marca: 2, 2015, before me, Marca R. Oracana,  Notary Public, personally appeared Gerald Spotts, personally known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized	
capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  MARIO R. ORELLANA Commission # 2124453  Notary Public - California Los Angeles County	<u> </u>
Signature of Notary Public  My Commission Expires:  Sept. 15, 23, 9  Place Notary Seal Above	119

Date: 14 Feb 2018 By: Roman Pichler		
State of (100		
On Management of the me, Management of the me, Notary Public, personally appeared Roman Pichler, personally known to me or proved to		
me on the basis of satisfactory evidence, to be the person whose name is subscribed to the		
within instrument and acknowledged to me that he executed the same in his authorized		
capacity, and that by his signature on the instrument the person, or the entity upon behalf		
of which the person acted, executed the instrument.		
WITNESS my hand and official seal.		
Signature of Notary Public Place Notary, Seal Above		
My Commission-Expires:		

Date: 20 Ribwary 2018	By: Mula Illum Michael Nelson
State of   linois   ) County of Coolc	ss.
On 20 Rbwary 2019, before	me, Rose Ann Nagel ,
Notary Public, personally appeared Michael	Nelson, personally known to me or proved to
me on the basis of satisfactory evidence, to b	e the person whose name is subscribed to the
within instrument and acknowledged to me	that he executed the same in his authorized
capacity, and that by his signature on the ins	trument the person, or the entity upon behalf
of which the person acted, executed the instru	ument.
WITNESS my hand and official seal.	
Poreannoger	
Signature of Notary Public	Place Notary Seal Above
My Commission Expires: 22 october 201	OFFICIAL SEAL ROSE ANN NAGEL Notary Public - State of Illinois My Commission Expires 10/22/2019

Date: 3/15/2018	By:
	Print Name: Phillipe Edouard
	Title: <u>Director</u> , <u>Legal Intellectual Property</u>
State of <u>Massachusetts</u> )  County of <u>Middlesex</u> )	ss.
Notary Public, personally appeared Public me or proved to me on the basis of satisfact subscribed to the within instrument and acknowledges.	re me, <u>Amanda Cucchiara</u> , hilippe Edouard, personally known to story evidence, to be the person whose name is knowledged to me that he executed the same in ignature on the instrument the person, or the d, executed the instrument.
WITNESS my hand and official seal.  Signature of Notary Public	Place Notary Seal Above
My Commission Expires: Jone 15	2023

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