

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3069639

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	FLINT HILLS SCIENTIFIC, LLC	10/14/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	IVAN OSORIO	
<b>Street Address:</b>	4005 WEST 124TH STREET	
<b>City:</b>	LEAWOOD	
<b>State/Country:</b>	KANSAS	
<b>Postal Code:</b>	66209	
<b>PROPERTY NUMBERS Total: 2</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	13765795	
<b>PCT Number:</b>	US2014013758	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(816)960-0041	
<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>		
<b>Phone:</b>	8169600090	
<b>Email:</b>	marcellus.chase@kutakrock.com	
<b>Correspondent Name:</b>	KUTAK ROCK LLP	
<b>Address Line 1:</b>	1010 GRAND BLVD	
<b>Address Line 2:</b>	SUITE 500	
<b>Address Line 4:</b>	KANSAS CITY, MISSOURI 64106	
<b>ATTORNEY DOCKET NUMBER:</b>	62712-2.1	
<b>NAME OF SUBMITTER:</b>	MARCELLUS A. CHASE	
<b>SIGNATURE:</b>	/Marcellus A. Chase/	
<b>DATE SIGNED:</b>	10/17/2014	
<b>Total Attachments: 6</b>		
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PATENT



## INVENTION ASSIGNMENT

This Invention Assignment ("Assignment") is made and effective as of the last of the respective dates shown in the signature block hereto (the "Effective Date") by the Assignor (as described below) in favor of Ivan Osorio, an individual residing in Leawood, Kansas ("Assignee").

**WHEREAS** Flint Hills Scientific, LLC, a Kansas limited liability company having a business address at 900 Massachusetts Street, Suite 500, Lawrence, Kansas 66044 (hereinafter referred to as Assignor), is the owner of the entire right, title and interest of the inventions shown on the attached SCHEDULE A (the "Inventions") by virtue of an assignment recorded at Reel 029939 and Frame 0376 at the United States Patent and Trademark Office.

**WHEREAS**, Assignee desires to confirm through this Invention Assignment its agreement to acquire the entire right, title and interest in and to the Inventions and to secure, as Assignee deems appropriate, patent and/or other protection therefor.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor makes assignment, agreement, representation, warranties, and grants as follows:

**1. Assignment of Inventions.** Assignor hereby sells, assigns, transfers, conveys, and sets over unto Assignee, its successors, legal representatives, its entire right, title, and interest of Assignor in and to the Inventions and to the extent required by Section 5(B) of the Flint Hills Scientific, LLC Amended and Restated Internal Agreement:

(a) any and all letters patent that may be issued with respect thereto in the United States and elsewhere in the world; any and all direct and indirect divisions, continuations, and continuations-in-part of said letters patent; any and all reissues, reexaminations, and extensions of said letters patent; and any and all rights under the International Convention for the Protection of Industrial Property (collectively herein, the "Patent Rights").

(b) any and all rights to recover damages or other equitable relief for any and all past, present, and future infringement or infringements of any of the Patent Rights.

All of the foregoing are to be held and enjoyed by Assignee, for his own use and benefit and the use and benefit of his affiliates, successors, legal representatives, and assigns, to the full end of the term for which each of the letters patent and applications for letters patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made to Assignee.

This assignment is executed under Section 5(B) of the Flint Hills Scientific, LLC Amended and Restated Internal Agreement and does not alter or amend any revenue sharing obligations established by that Section.

**2. Representations and Warranties.** Assignor hereby represents and warrants to Assignee, its affiliates, successors, legal representatives, and assigns, that, at the time of execution

and delivery of these presents, Assignor, as against all persons anywhere other than Assignee, is the lawful owners of a right, title and interest in and to said Inventions and the Patent Rights, and that the same are unencumbered. Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

3. **Further Assurance.** Assignor agrees to sign all papers and documents, take all lawful oaths and do all acts (now and in the future) necessary or required to be done for the procurement, maintenance, enforcement and defense of the Patent Rights, whenever counsel of Assignee, or counsel of its successors, legal representatives, and assigns, shall reasonably request: that any proceeding in connection with said Patent Rights in any country of the world, including but not limited to interference proceedings, is lawful and desirable; or, that any division, and continuation of any of said Patents or any reissue, reexamination or extension of any of said Patent Rights, to be obtained thereon, is lawful and desirable. For this limited purpose, Assignor hereby appoints Assignee as its attorney in fact to execute and deliver to Assignee, on behalf of Assignor, any and all such documents or instruments. This appointment shall be deemed to be a power coupled with an interest and shall be irrevocable.

4. **Grant of Additional Rights.** Assignor grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

**KUTAK ROCK LLP**

**All practitioners at Customer Number 97242.**

Signature Page 1

IN WITNESS WHEREOF, the Assignor has executed this Assignment as of the date shown below.

Date: 10/10/2014

FLINT HILLS SCIENTIFIC, LLC

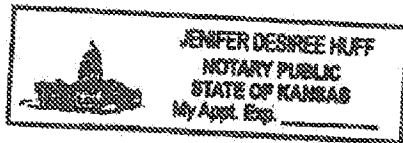
By: I. Osorio

Title: MEMBER

STATE OF Kansas  
COUNTY OF Sedgwick ss.

On this 10th day of October, 2014, before me personally appeared Ivan Osorio to me known to be the person described in, and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

Seal



Jennifer Desree Huff  
Notary Public

My Commission expires: 9-10-18

Signature Page 2

IN WITNESS WHEREOF, the Assignor has executed this Assignment as of the date shown below.

Date: Oct 13, 2014

FLINT HILLS SCIENTIFIC, LLC

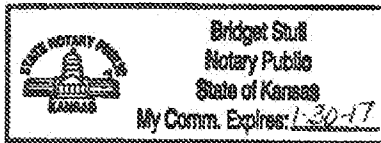
By: R Kulkarni

Title: DIRECTOR  
KU Center for Technology  
Commercialization Inc.

STATE OF Kansas )  
COUNTY OF Douglas ) ss.

On this 13<sup>th</sup> day of October, 2014, before me personally appeared

Rajiv Kulkarni to me known to be the person described in, and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



Seal

Bridget Stull  
Notary Public

My Commission expires: Jan 30, 2017

Signature Page 2

IN WITNESS WHEREOF, the Assignor has executed this Assignment as of the date shown below.

Date: 10/14/2014

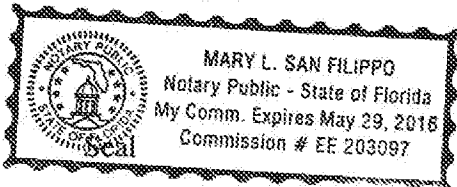
FLINT HILLS SCIENTIFIC, LLC

By: Mark G. Frei

Title: Member

STATE OF Florida  
COUNTY OF Seminole ss.

On this 14 day of October, 2014, before me personally appeared Mark G. Frei to me known to be the person described in, and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



Mary L. San Filippo  
Notary Public

My Commission expires: 5/29/2016

## SCHEDULE A

Patent Application No.	TITLE	Filed
13/765,795	SELECTIVE RECRUITMENT AND ACTIVATION OF FIBER TYPES IN NERVES FOR THE CONTROL OF UNDESIRABLE BRAIN STATE CHANGES	February 13, 2013
PCT/US2014/013758	SELECTIVE RECRUITMENT AND ACTIVATION OF FIBER TYPES IN NERVES FOR THE CONTROL OF UNDESIRABLE BRAIN STATE CHANGES	January 30, 2014