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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAURIE H. ANDOLINA	12/12/2016
JOHN T. GREENAMYRE	12/12/2016
SRUTI SHIVA	12/09/2016

RECEIVING PARTY DATA

Name:	UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION
Street Address:	130 THACKERAY AVENUE
Internal Address:	1ST FLOOR GARDNER STEEL CONFERENCE CENTER
City:	PITTSBURGH
State/Country:	PENNSYLVANIA
Postal Code:	15260

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17227186

CORRESPONDENCE DATA

Fax Number: (503)595-5301

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.

Phone: 503-595-5300

Email: adrienne.chocholak@klarquist.com KLARQUIST SPARKMAN, LLP **Correspondent Name:**

Address Line 1: 121 SW SALMON STREET, SUITE 1600

Address Line 2: ONE WORLD TRADE CENTER Address Line 4: PORTLAND, OREGON 97204

ATTORNEY DOCKET NUMBER: 8123-95728-05 NAME OF SUBMITTER: SUSAN ALPERT SIEGEL **SIGNATURE:** /Susan Alpert Siegel/ **DATE SIGNED:** 04/12/2021

Total Attachments: 6

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PATENT REEL: 055895 FRAME: 0858 source=8123-95728-05_Assignment#page2.tif source=8123-95728-05_Assignment#page3.tif source=8123-95728-05_Assignment#page4.tif source=8123-95728-05_Assignment#page5.tif source=8123-95728-05_Assignment#page6.tif

> PATENT REEL: 055895 FRAME: 0859

ASSIGNMENT

WHEREAS, we, Laurie H. Andolina, of Pittsburgh, Pennsylvania, John T. Greenamyre, of Sewickley, Pennsylvania, and Sruti Shiva, of Sewickley, Pennsylvania, have invented a certain invention, entitled MITOCHONDRIAL HEALTH PARAMETERS AS CLINICAL PREDICTORS OF PARKINSON'S DISEASE, for which the following application has been filed:

PCT Patent Application No. PCT/US2016/050773, filed on September 8, 2016 the application is referred to as "the patent application."

WHEREAS, UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, a non-profit entity organized and existing under the laws of the Commonwealth of Pennsylvania, having a place of business at 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, Pennsylvania 15260, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Laurie H. Andolina, John T. Greenamyre, and Sruti Shiva hereby sell, assign, and transfer to UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, the full and exclusive right, title, and interest in and to said invention, patent application, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, patent application, and letters patent in this or any foreign country, and all corresponding nonprovisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to

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PATENT REEL: 055895 FRAME: 0860 aid UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, its successors, and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at	the place and d	late opposite	our respective s	ignatures below	v.	Microsophic Congression P
At Pittsbu	ush, Penns	sylvania	Laurie]	A. Andolina		
on this 12 day o	(City and State) f_ <i>December</i>	, 20 <u>16</u> .				
COMMONWEALT	H OF)				
PENNSYLVANIA						
COUNTY OF ALL	EGHENY) ss.				
This <u>i?</u> day Laurie H. Andolina, to me that this instru	who executed	the foregoing	•	ny presence, an	d who ackno	wledged
, n	MONWEALTH OF NOTARIAL Nicholas T. DeSanto, City of Pittsburgh, Ali dy Commission Expire R, PENNSYLVANIA ASSO	SEAL , Notary Public legheny County es March 3, 2018	Notary Pub My commi	olic For ssion expires:	3ª Marcl	7018

	queenang	
At Pittsbury Pennsylvania	John T. Greenamyre	
on this D' day of December, 2016.		
COMMONWEALTH OF) PENNSYLVANIA		
OUNTY OF ALLEGHENY) ss.		
This 12 day of <u>December</u> , 2016, before T. Greenamyre, who executed the foregoing instrume me that this instrument was executed by John T. Gree forth therein.	nt in my presence, and who acknowledged to	l
COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Nicholas T. DeSanto, Notary Public City of Pittsburgh, Allegheny County My Commission Expires March 3, 2018 [SEAL] MEMBER, PENNSYLVANIA ABSOCIATION OF NOTARIES	Notary Public For My commission expires: 3" Mark 2	_ O
	Sruti Shiva	
At(City and State) on this day of, 20	_	
STATE OF)		
COUNTY OF) ss.		
This day of, 20, before Shiva, who executed the foregoing instrument in my puthis instrument was executed by Sruti Shiva's own free	presence, and who acknowledged to me that	
	Notary Public For My commission expires:	

ASSIGNMENT

WHEREAS, we, Laurie H. Andolina, of Pittsburgh, Pennsylvania, John T. Greenamyre, of Sewickley, Pennsylvania, and Sruti Shiva, of Sewickley, Pennsylvania, have invented a certain invention, entitled MITOCHONDRIAL HEALTH PARAMETERS AS CLINICAL PREDICTORS OF PARKINSON'S DISEASE, for which the following application has been filed:

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Laurie H. Andolina, John T. Greenamyre, and Sruti Shiva hereby sell, assign, and transfer to UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, the full and exclusive right, title, and interest in and to said invention, patent application, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, patent application, and letters patent in this or any foreign country, and all corresponding nonprovisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, its successors, and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

		Laurie H. Andolina
At		
(City and Sta	te)	
on this day of		
COMMONWEALTH OF)	
PENNSYLVANIA	*	
) ss.	
COUNTY OF ALLEGHENY)	
to me that this instrument was ex	ed the foregoing in	pefore me personally came the above-named astrument in my presence, and who acknowledged H. Andolina's own free will for the purpose set
forth therein.		
		Notary Public For
FOT A T T		My commission expires:
[SEAL]		

	John T. Greenamyre
At	som it monunity
At (City and State)	
on this day of, 20	
COMMONWEALTH OF) PENNSYLVANIA	
COUNTY OF ALLEGHENY) ss.	
This day of, 20	, before me personally came the above-named John rument in my presence, and who acknowledged to Greenamyre's own free will for the purpose set
	Notary Public For My commission expires:
[SEAL]	
	Suti Sui
4 P. H. 1 1 P	Sruti Shiva
At <u>Pittsburgh</u> , <u>Pennsylvan</u> (City and State) on this <u>9</u> day of <u>December</u> , 2016.	
STATE OF Pennsylvania)	
STATE OF Pennsylvania)) ss. COUNTY OF Allegheny)	
This <u>g</u> ⁺ day of <u>December</u> , 20 <u>/6</u> , Shiva, who executed the foregoing instrument in this instrument was executed by Sruti Shiva's ow	before me personally came the above-named Sruti my presence, and who acknowledged to me that in free will for the purpose set forth therein.
	Net m
[SEAL] NOTARIAL SEAL Kristin Mayes, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Aug. 23, 2019 MENBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	Notary Public For University of Pittsburgh My commission expires: August 23, 2019