505098186 09/18/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5144946

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDER K. SHALEK	02/21/2017

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
Street Address:	77 MASSACHUSETTS AVENUE			
City:	CAMBRIDGE			
State/Country:	MASSACHUSETTS			
Postal Code:	02139			

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16085938

CORRESPONDENCE DATA

Fax Number: (240)359-4879

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: 9122574864

Email: BROD.Assignments@jmi-iplaw.com

Correspondent Name: F. BRENT NIX, ESQ.

Address Line 1: JOHNSON, MARCOU & ISAACS, LLC

Address Line 2: P.O. BOX 691

Address Line 4: HOSCHTON, GEORGIA 30548

ATTORNEY DOCKET NUMBER:	BROD-3570US
NAME OF SUBMITTER:	SUSAN FRATTURA
SIGNATURE:	/Susan Frattura/
DATE SIGNED:	09/18/2018

Total Attachments: 3

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PATENT 505098186 REEL: 046893 FRAME: 0984

ASSIGNMENT

I, Alexander K. Shalek, residing at: 2408 Massachusetts Avenue, Lexington, MA 02421, USA, being the inventor(s) of certain improvements in the international application entitled: METHODS FOR IDENTIFYING AND MODULATING CO-OCCURANT CELLULAR PHENOTYPES for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto MASSACHUSETTS INSTITUTE OF TECHNOLOGY having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139 its successors and assigns (1) the entire right, title and interest in all countries throughout the world in and to any and all of my inventions and discoveries in my United States Provisional Application No. 62/309,680 filed March 17, 2016 and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (ROIUS) on March 17, 2017 identified as International Application No. PCT/US17/23054 and designating all PCT member countries/states, as well as in any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of MASSACHUSETTS INSTITUTE OF TECHNOLOGY, or their designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right title and interest in and to any Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following application(s):

United States Provisional Application No. 62/309,680 filed March 17, 2016, and all rights of priority in any country of the world deriving from the above-identified International Application.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to MASSACHUSETTS INSTITUTE OF TECHNOLOGY as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

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PATENT REEL: 046893 FRAME: 0985 I agree, at any time, upon the request of MASSACHUSETTS INSTITUTE OF TECHNOLOGY to execute and to deliver to MASSACHUSETTS INSTITUTE OF TECHNOLOGY any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree, at any time, upon request of MASSACHUSETTS INSTITUTE OF TECHNOLOGY, to execute and to deliver to MASSACHUSETTS INSTITUTE OF TECHNOLOGY, such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do what is necessary to give full effect to and to perfect any and all rights of MASSACHUSETTS INSTITUTE OF TECHNOLOGY, under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

In testimony of which I have hereupon affixed my signature it is my intention that this Assignment instrument be effective, and all rights transferred herein shall be considered to have vested in MASSACHUSETTS INSTITUTE OF TECHNOLOGY as from the March 17, 2016 filing date of the first filed United States Provisional Application No. 62/309,680 from which priority is hereby claimed.

I, Alexander K. Shalek, hereby authorize the attorneys of record, Vedder Price P.C., to insert the PCT Application Serial No. for the instant application METHODS FOR IDENTIFYING AND MODULATING CO-OCCURANT CELLULAR PHENOTYPES even if the PCT Application Serial No. and filing date are after the execution date of this document as this document is to be effective as to such a PCT Application.

February 21, 2017

Alèxander K. Shalek

Commonwealth of Massachusetts

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COUNTY OF MI delesex

On this day of Fabruary 21, 2017, before me, the undersigned notary public, personally appeared Alexander K. Shalek, proved to me through satisfactory evidence of identification, which was to be the person whose name is signed on the preceding or

attached document in my presence.

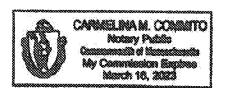
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IN WITNESS	WHEREOF, I h	ave hereunto	set my	hand an	nd Notarial	Seal,	this	215t	day	of
Fabruary_	, 2017.								•	

Coupling M. Concribo Notary Public

My Commission Expires:

SEAL



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PATENT REEL: 046893 FRAME: 0987

RECORDED: 09/18/2018