504291099 03/27/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FENG ZHANG	08/12/2016

RECEIVING PARTY DATA

Name:	THE BROAD INSTITUTE INC.
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15467949

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NAME OF SUBMITTER:	CHRISTINA COLOCOTRONIS
SIGNATURE:	/CHRISTINA COLOCOTRONIS/
DATE SIGNED:	03/27/2017

PATENT REEL: 041750 FRAME: 0911

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PATENT REEL: 041750 FRAME: 0912

ASSIGNMENT

I, Feng Zhang, residing at: 100 Pacific Street, Apt. 11, Cambridge, MA 02139 USA, being the inventor(s) of certain improvements in the international application entitled: USE AND PRODUCTION OF CHD8+/- TRANSGENIC ANIMALS WITH BEHAVIORAL PHENOTYPES CHARACTERISTIC OF AUTISM SPECTRUM DISORDER for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto THE BROAD INSTITUTE INC., having a place of business at 415 Main Street, Cambridge, MA 02142, USA, and MASSACHUSETTS INSTITUTE OF TECHNOLOGY, having a place of business at 77 Massachusetts Ave., Cambridge, MA 02139, USA, 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 Nos. 62/054,675, filed September 24, 2014, 62/181,002, and 62/180,859 filed June 17, 2015, and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (ROIUS) on September 23, 2015, identified as International Application No. PCT/US2015/051691, 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 THE BROAD INSTITUTE INC., and 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 Nos. 62/054,675, filed September 24, 2014, and 62/181,002 and 62/180,859, filed June 17, 2015, 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 THE BROAD INSTITUTE INC., and MASSACHUSETTS INSTITUTE OF TECHNOLOGY as the assignee of the entire

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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.

I agree, at any time, upon the request of THE BROAD INSTITUTE INC., and MASSACHUSETTS INSTITUTE OF TECHNOLOGY to execute and to deliver to THE BROAD INSTITUTE INC., and 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 THE BROAD INSTITUTE INC., and MASSACHUSETTS INSTITUTE OF TECHNOLOGY, to execute and to deliver to THE BROAD INSTITUTE INC., and 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 THE BROAD INSTITUTE INC., and 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 THE BROAD INSTITUTE INC., and MASSACHUSETTS INSTITUTE OF TECHNOLOGY as from September 24, 2014, the filing date of the first filed United States Provisional Application No. 62/054,675, from which priority is hereby claimed.

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in person and acknowledged that he signed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WATNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this

day of

TARA BURKE IONNEALTH OF MASSACHUSETTS Commission Expires January 20, 2023

Notary Public

My Commission Expires:

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