

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5165321

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ERIC S. LANDER	08/23/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE BROAD INSTITUTE, INC.
<b>Street Address:</b>	415 MAIN STREET
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02142
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15917546
<b>CORRESPONDENCE DATA</b>	
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<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	BROD-0845US
<b>NAME OF SUBMITTER:</b>	COLLEEN F. SULLIVAN
<b>SIGNATURE:</b>	/Colleen F. Sullivan/
<b>DATE SIGNED:</b>	09/28/2018
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

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WHEREAS, I, **ERIC S. LANDER**, having a correspondence address of c/o 415 Main Street, Cambridge, Massachusetts 02142, have invented with another certain inventions and improvements disclosed in International PCT Patent Application No. PCT/US17/65477 entitled "**CRISPR EFFECTOR SYSTEM BASED DIAGNOSTICS**," filed on December 8, 2017 with the United States Patent and Trademark Office as Receiving Office; and

WHEREAS, **THE BROAD INSTITUTE, INC.**, having a principal place of business at 415 Main Street, Cambridge, Massachusetts 02142, is desirous of acquiring an interest in the same; and

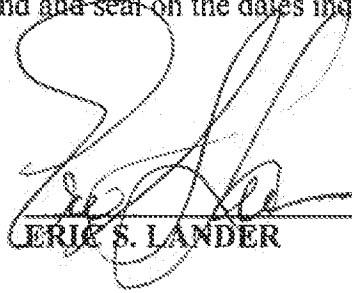
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which I hereby acknowledge, I, **ERIC S. LANDER**, *by these presents, do sell, assign, and transfer unto said Assignee, THE BROAD INSTITUTE, INC.*, my full, exclusive, and entire right, title, and interest in and to said applications, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and I hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, reexamination, or reissue thereof, to **THE BROAD INSTITUTE, INC.** for their interest and for the use and benefit of **THE BROAD INSTITUTE, INC.**, as assignee, and their assigns and legal representatives;

For the same consideration, I, by these presents, do sell, assign, and transfer to **THE BROAD INSTITUTE, INC.**, my full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said applications, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **THE BROAD INSTITUTE, INC.**, or their designees insofar as permitted by applicable law;

AND, for the same consideration, I agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths,

and generally do everything possible to aid THE BROAD INSTITUTE, INC., their successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

In testimony whereof, I hereunto set my hand and seal on the dates indicated below.

  
ERIC S. LANDER Date 8-23-18

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

Before me, a Notary Public in and for the aforementioned state, on this 23<sup>rd</sup> day of August, 2018, personally appeared ERIC S. LANDER, who, being duly sworn, signed and acknowledged the foregoing Assignment.

  
NOTARY PUBLIC

My Commission Expires: 7/12/24

