

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HOWARD HUGHES MEDICAL INSTITUTE	12/17/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GENERAL HOSPITAL CORPORATION
<b>Street Address:</b>	55 FRUIT STREET
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02114
<b>PROPERTY NUMBERS Total: 4</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15670929
Application Number:	15836479
Application Number:	15836520
Application Number:	15965452
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<b>ATTORNEY DOCKET NUMBER:</b>	4381
<b>NAME OF SUBMITTER:</b>	KAREN SINCLAIR
<b>SIGNATURE:</b>	/K.S./
<b>DATE SIGNED:</b>	01/11/2019
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

Assignor:  
HOWARD HUGHES MEDICAL INSTITUTE  
4000 Jones Bridge Road  
Chevy Chase, MD 20815

Assignee:  
THE GENERAL HOSPITAL CORPORATION  
55 Fruit Street  
Boston, MA 02114

WHEREAS, I, **Bradley Bernstein**, of *[146 LARCH RD, CAMBRIDGE, MA]*,  
as a duly appointed agent of Howard Hughes Medical Institute (HHMI), have developed  
certain inventions described in **International Patent Application No. PCT/US13/29123**  
**filed March 5, 2013**, entitled **"Systems and Methods for Epigenetic Sequencing,"**  
which claims priority to US Application 61/634,744 filed March 5, 2012; having full  
right to convey HHMI's entire right, title, and interest, both legal and equitable, in and to  
said inventions, free from all prior assignments, agreements, licenses, mortgages, security  
interests, or other encumbrances whatsoever; and

WHEREAS, THE GENERAL HOSPITAL CORPORATION ("Assignee"), a  
non-profit corporation of the state of Massachusetts, having its principal place of business  
at 55 Fruit Street, Massachusetts 02114, is desirous of acquiring the entire right, title, and  
interest in and to said invention or inventions and any and all patents to be obtained  
therefore;

NOW, THEREFORE, in consideration of good and valuable consideration, the  
receipt and sufficiency of which are hereby acknowledge by the undersigned does hereby  
sell, assign, transfer, and set over unto said Assignee, its successors and assigns, HHMI's  
entire right, title, and interest throughout the world in and to said invention or inventions,  
as described in the aforesaid application, in any form or embodiment thereof, and in and  
to the aforesaid application; and in and to any application filed in any foreign country  
based thereon, including the right to file said foreign applications and claim priority  
under the provisions of any international convention or treaty; also the entire right, title,  
and interest throughout the world in and to any and all patents or reissues or extensions  
thereof to be obtained in this or any foreign country upon said invention or inventions

and any divisional, continuation, or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

For purposes of complying with foreign requirements, the above paragraph is intended to expressly grant all the recited rights and grants in China, Korea, and Japan.

The undersigned further agrees, without any further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence of interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; executed and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

Assignor authorizes Assignee or Assignee's representative to supply and/or to correct any errors in the patent/application information provided above including but not limited to said application serial number(s) and filing date(s), prior to or after recordation.

IN TESTIMONY WHEREOF, the undersigned had hereunto set his/her hand and seal on the date after his/her signature.



**Bradley Bernstein,**  
an agent of the Howard Hughes Medical Institute

12/17/13  
(Date)



Witness's Signature



Witness's Printed Name

12/17/13  
(Date)