

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4483662

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID R. LIU	08/11/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HOWARD HUGHES MEDICAL INSTITUTE
<b>Street Address:</b>	4000 JONES BRIDGE ROAD
<b>City:</b>	CHEVY CHASE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20815
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15216844
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)646-8646
<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>	
<b>Phone:</b>	6176468381
<b>Email:</b>	patents_hunterb@wolfgreenfield.com, harvard.administrators@wolfgreenfield.com
<b>Correspondent Name:</b>	C. HUNTER BAKER
<b>Address Line 1:</b>	600 ATLANTIC AVENUE
<b>Address Line 2:</b>	WOLF GREENFIELD
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	H0824.70219US01 LIU/HHMI
<b>NAME OF SUBMITTER:</b>	C. HUNTER BAKER, M.D., PH.D.
<b>SIGNATURE:</b>	/C. Hunter Baker/
<b>DATE SIGNED:</b>	06/29/2017
<b>Total Attachments: 2</b>	
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CONFIRMATION OF ASSIGNMENT

Confirmation of Assignment made 8/11, 2015, by David R. Liu, PhD ("Inventor") to the Howard Hughes Medical Institute, a Delaware corporation ("HHMI").

Recitals

WHEREAS, Inventor is an employee of HHMI and, as a condition of his employment, has signed the Intellectual Property Assignment Agreement (the "Intellectual Property Agreement");

WHEREAS, pursuant to the Intellectual Property Agreement, Inventor (a) assigned to HHMI all rights he had in any intellectual property resulting from research by HHMI employees, alone or with others, whether or not patentable or copyrightable, and whether funded in whole or in part by HHMI (each a "Subject Property") and (b) agreed to execute any agreements that may be desired by HHMI in connection with such assignment;

WHEREAS, Inventor has, alone or with others invented "Directed Evolution of Site-Specific Recombinases for Targeted Integration into Unmodified Human Cells" which may be the subject of a patent application (the "Invention"), and the Invention is a Subject Property; and

WHEREAS, Inventor seeks to confirm the assignment of his interest in the Invention to HHMI, and HHMI desires the execution of a confirmatory assignment of all of Inventor's right, title, and interest in the Invention.

NOW, THEREFORE, in consideration of the promises contained in and the acts performed and to be performed pursuant to the Intellectual Property Agreement and of other good and valuable consideration, the receipt of which is hereby acknowledged by Inventor, Inventor agrees as follows:

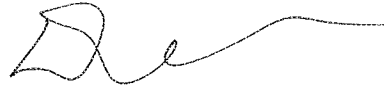
1. Assignment. Inventor hereby confirms the assignment to HHMI of his entire right, title, and interest in the Invention; any United States patent applications and all corresponding foreign patent applications which are directed to the Invention including, without limitation, the patent application entitled "Evolution of Site-Specific Recombinases" filed in the United States Patent and Trademark Office on July 22, 2015 with Serial Number 62/195,739 and any and all patents issued therefrom; all United States or foreign division and continuation applications based on any of the foregoing, and any and all patents issued therefrom; and all claims which are directed to the Invention and which may be contained in continuation-in-part applications or in patents which issue therefrom.


2. Cooperation. Inventor further confirms that Inventor agreed to execute upon request such further confirmatory assignments, documents, and other instruments as may be requested by HHMI in connection with the Invention and to assist HHMI (or others at the direction of HHMI) in applying for, obtaining, and enforcing patents, copyrights, or other rights in the United States and in any foreign country with respect to the Invention.


3. Parties. The terms and provisions of the Assignment shall inure to the benefit of HHMI and its successors and assigns and shall be binding on the Inventor and his heirs, personal representatives, successors and assigns.

4. Warranty. Inventor warrants and represents that he has not entered into any assignment, contract, or understanding in conflict herewith.

Inventor:

  
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David R. Liu, PhD

Witness:  ALEKS MARKOVIC Date: 8/11/15

Witness:  Chihui An Date: 8/11/15

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