

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
David R. Liu	11/18/2008
RECEIVING PARTY DATA	
Name:	Howard Hughes Medical Institute
Street Address:	4000 Jones Bridge Road
City:	Chevy Chase
State/Country:	MARYLAND
Postal Code:	20815
PROPERTY NUMBERS Total: 2	
Property Type	Number
PCT Number:	US0956194
Application Number:	61094666
CORRESPONDENCE DATA	
Fax Number:	(617)495-9568
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(617) 495-3058
Email:	denlyn_atherton@harvard.edu
Correspondent Name:	Anne Craig
Address Line 1:	1350 Massachusetts Ave
Address Line 2:	Harvard University, Office of Tech. Dev.
Address Line 4:	Cambridge, MASSACHUSETTS 02138
ATTORNEY DOCKET NUMBER:	3326 PCT & PROV HHMI
NAME OF SUBMITTER:	Anne I. Craig
Total Attachments: 4 source=Assignment Executed#page1.tif source=Assignment Executed#page2.tif	

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Liu

November 24, 2008

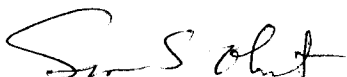
David R. Liu, PhD
Investigator
Howard Hughes Medical Institute
Harvard University
Department of Chemistry and Chemical Biology
12 Oxford Street
Cambridge, MA 02138

Dear Dr. Liu:

I have received the executed form assigning your rights in the invention entitled "Continuous Directed Evolution of Proteins and Nucleic Acids," which is set forth on the invention disclosure dated August 26, 2008 (the "Invention"). HHMI has adopted the practice of appointing you as HHMI's agent for the purpose of assigning its rights in the Invention to President and Fellows of Harvard College ("Institution"), as required under the collaborative arrangement between HHMI and Institution. Enclosed with this letter is an executed document appointing you as HHMI's agent for this purpose. I am sending a copy of the assignment(s), this letter and its enclosure to Denlyn K. Atherton at Institution.

As you are probably aware, you will be asked to execute an assignment of rights to Institution in the event a patent application is filed with respect to the Invention. To ensure that HHMI's rights are properly assigned to Institution, it is important that you have the enclosed executed document with you when you execute that assignment and that, after your signature, you write in "for himself and as agent for the Howard Hughes Medical Institute." If you have any questions at all about this procedure or your role in it, please contact me.

Sincerely,



Sue S. Ohata
Manager of Intellectual Property

Enclosure

cc: Ms. Denlyn K. Atherton

Sue S. Ohata
Manager of Intellectual Property
30542701

4000 Jones Bridge Road
Chevy Chase, Maryland 20815-6789
301.215.8500 • Fax 240.497.2322 • ohatas@hhmi.org

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APPOINTMENT OF INVESTIGATOR AS AGENT

Appointment by the Howard Hughes Medical Institute ("HHMI") of David R. Liu, PhD, an employee of HHMI, as its agent for the purpose of assigning certain rights to President and Fellows of Harvard College ("Institution").

WHEREAS, HHMI and Institution collaborate in the active conduct of medical research pursuant to an Agreement between them dated as of April 14, 2003 (the "Agreement");

WHEREAS, pursuant to the Agreement, HHMI has agreed to assign to Institution HHMI's rights with respect to inventions, discoveries, improvements, and other intellectual property, whether patentable or copyrightable (each a "Subject Property"), conceived or reduced to practice in the course of the research program conducted under the Agreement by employees of HHMI;

WHEREAS, research conducted pursuant to the Agreement by David R. Liu, PhD while employed by HHMI at Institution has resulted in the invention of a certain Subject Property entitled "Continuous Directed Evolution of Proteins and Nucleic Acids," which is the subject of a patent application entitled "Continuous Directed Evolution of Proteins and Nucleic Acids" filed in the U.S. Patent and Trademark Office on September 5, 2008 with Serial Number 61/094,666 (the "Invention"), and the Invention is a Subject Property; and

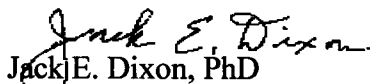
WHEREAS, HHMI wishes David R. Liu, PhD to act as its agent for the purpose of assigning to Institution the rights HHMI has in the Invention by reason of the research program conducted at Institution.

NOW THEREFORE, HHMI hereby appoints David R. Liu, PhD as its agent for the purpose of assigning the rights HHMI has or may acquire in the Invention by reason of the research program conducted at Institution to Institution in accordance with and subject to the conditions of the Agreement.

Executed: November 24, 2008

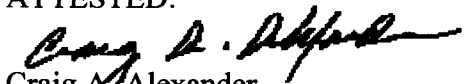
HOWARD HUGHES MEDICAL INSTITUTE

By:


Jack E. Dixon, PhD

Vice President and Chief Scientific Officer

ATTESTED:


Craig A. Alexander
Vice President and General Counsel

Harvard 3326
HHMI 04047

ASSIGNMENT

Assignment made 11/18, 2008 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 Agreement appended to HHMI's Policy on Intellectual Property (the "Intellectual Property Agreement");

WHEREAS, pursuant to the Intellectual Property Agreement, Inventor has agreed (a) to assign to HHMI all rights he may acquire in any invention, discovery, improvement, or other intellectual property, whether or not patentable or copyrightable, developed directly or indirectly as a result of a program of research financed by HHMI funds or funds under the control of HHMI (each a "Subject Property") and (b) to execute any agreements that may be desired by HHMI in connection with such assignment;

WHEREAS, Inventor has, alone or with others invented "Continuous Directed Evolution of Proteins and Nucleic Acids" which may be the subject of a patent application (the "Invention"), and the Invention is a Subject Property; and

WHEREAS, Inventor seeks to make a formal assignment of his interest in the Invention to HHMI, and HHMI desires the execution of a formal 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 assigns to HHMI his entire right, title, and interest in the Invention; any United State patent applications and all corresponding foreign patent applications which are directed to the Invention (including, without limitation, the patent application entitled "Continuous Directed Evolution of Proteins and Nucleic Acids" filed in the United States Patent and Trademark Office on September 5, 2008 with Serial Number 61/094,666), 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 agrees to execute upon request such further assignments, documents, and other instruments as may be necessary or desirable to assign Inventor's entire right, title and interest in the Invention to HHMI 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.

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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 and assigns.

4. Warranty. Inventor warrants and represents that he has not entered into any assignment, contract, or understanding in conflict herewith, and that there is no other person or entity whose consent is required in order for the Inventor to make the assignment contained herein.

Inventor:


David R. Liu, PhD

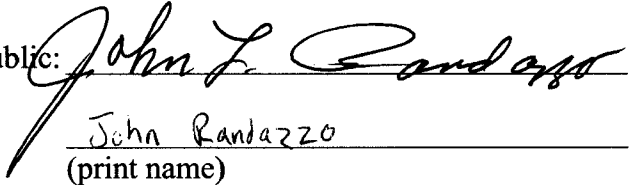
Commonwealth of Massachusetts

County of Middlesex

Then personally appeared before me the above-named David R. Liu, PhD and acknowledged that he executed the foregoing instrument in his authorized capacity this 18 day of November, 2008.

Notary Public:

(SEAL)


John Randazzo
(print name)

My Commission Expires: APRIL 30, 2010

Harvard 3326
HHMI 04047

JOHN L. RANDAZZO
NOTARY PUBLIC
My Commission Expires April 30, 2010