

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4897184

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
FENG ZHANG	01/26/2018
RECEIVING PARTY DATA	
Name:	THE BROAD INSTITUTE, INC.
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Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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City:	CAMBRIDGE
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15838720
CORRESPONDENCE DATA	
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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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ATTORNEY DOCKET NUMBER:	47627.02.2014
NAME OF SUBMITTER:	CHRISTINA DIBENEDETTO
SIGNATURE:	/Christina DiBenedetto/
DATE SIGNED:	04/03/2018

Total Attachments: 3

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Vedder Price P.C.
Application No.: 15/838,720
Filing Date: 12/12/2017
File No.: 47627.02.2014-BI-2015/002.US1

ASSIGNMENT

I, Feng Zhang, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: **ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS, ENZYMES AND GUIDE SCAFFOLDS OF CAS9 ORTHOLOGS AND VARIANTS FOR SEQUENCE MANIPULATION** and **THE BROAD INSTITUTE, INC.**, whose address is 415 Main Street, Cambridge, MA 02142 and **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** whose address is 77 Massachusetts Ave., Cambridge, MA 02139 and which, together with its successors and assigns is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservation:

Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said *Letters Patent*;

Authorize Assignee to file and prosecute patent applications in any or all countries on any or all of said inventions and discoveries in my name or names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

Bind my heirs and legal representatives, as well as myself to do, upon Assignee's request and at its expense, but without additional consideration to me, all acts reasonably serving to

assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which I have affixed my signature.

January 26, 2018
Date

Feng Zhang
Feng Zhang

Commonwealth of Massachusetts)
COUNTY OF Middlesex) SS

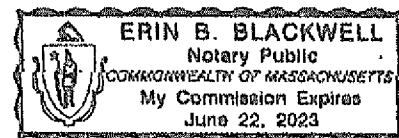
I, ERIN BLACKWELL, a Notary Public in and for the county and Commonwealth aforesaid, do hereby certify that Feng Zhang personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 26th day of January, 2018.

Erin B. Blackwell
Notary Public

My Commission Expires: _____

SEAL



ACCEPTANCE OF ASSIGNMENT

I, Jennifer Elliott on behalf of Assignee, The Broad Institute, Inc., accept the assignment of Feng Zhang as an inventor on the above-referenced application.

1/30/18
Date

Jennifer Elliott
Signature

Jennifer Elliott
Print Name

Director, IP
Title

ACCEPTANCE OF ASSIGNMENT

I, Lauren Foster on behalf of Assignee, Massachusetts Institute of Technology, accept the assignment of Feng Zhang as an inventor on the above-referenced application.

4/2/18
Date

Lauren C Foster
Signature

Lauren C. Foster
Print Name Associate Director
Technology Licensing Office

Title