

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT
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Property Type	Number
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Total Attachments: 3	
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ASSIGNMENT

I, Winston Yan, residing at: 145 Longwood Ave Apt #1, Brookline, MA 02446, USA, being the inventor(s) of certain improvements in the international application entitled: **ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS, ENZYME AND GUIDE SCAFFOLDS OF CAS9 ORTHOLOGS AND VARIANTS FOR SEQUENCE MANIPULATION** for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02142 its successors and assigns (1) the entire right, title and interest in all countries throughout the world in and to any and all of my inventions and discoveries in my United States Provisional Application Nos. 62/181,659 filed June 18, 2015 and 62/207,318 filed August 19, 2015 and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (ROIUS) on June 17, 2016 identified as International Application No. PCT/US2016/038252, and designating all PCT member countries/states, as well as in any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, or their designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right title and interest in and to any Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following application(s):

United States Provisional Application No. 62/181,659 filed June 18, 2015; and

United States Provisional Application No. 62/207,318 filed August 19, 2015, and all rights of priority in any country of the world deriving from the above-identified International Application.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** as the assignee of the entire right, title and interest therein, as fully and

entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** to execute and to deliver to **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree, at any time, upon request of **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, to execute and to deliver to **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do what is necessary to give full effect to and to perfect any and all rights of **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

In testimony of which I have hereupon affixed my signature it is my intention that this Assignment instrument be effective, and all rights transferred herein shall be considered to have vested in **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** as from the June 18, 2015 filing date of the first filed United States Provisional Application No. 62/181,659 from which priority is hereby claimed.

I, Winston Yan, hereby authorize the attorneys of record, Vedder Price P.C., to insert the PCT Application Serial No. for the instant application entitle **ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS, ENZYME AND GUIDE SCAFFOLDS OF CAS9 ORTHOLOGS AND VARIANTS FOR SEQUENCE MANIPULATION**, even if the PCT Application Serial No. and filing date are after the execution date of this document as this document is to be effective as to such a PCT Application.

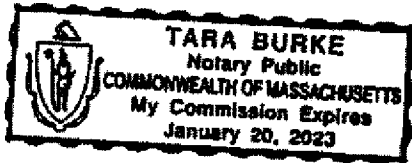
6/6/2016
Date


Winston Yan

Commonwealth of Massachusetts)
)
) SS
COUNTY OF Middlesex)

On this day of June 6, 2016, before me, the undersigned notary public, personally appeared Winston Yan, proved to me through satisfactory evidence of identification, which was Liama, to be the person whose name is signed on the preceding or attached document in my presence."

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 6 day of June, 2016.



[Signature]
Notary Public
My Commission Expires:
1/20/2023

SEAL