505656421 09/05/2019 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5703226

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΔΤΔ				
		Name	Execution Date		
AHMAD S. KHALIL			07/19/2019		
CALEB J. BASHOR			08/19/2019		
JAMES J. COLLINS			07/24/2019		
NIKIT PATEL			07/26/2019		
RECEIVING PARTY DA	TA				
Name:	TRUST	EES OF BOSTON UNIVERISTY			
Street Address:	ONE S	ILBER WAY			
City:	BOSTC	DN			
State/Country:	MASSA	MASSACHUSETTS			
Postal Code:	02215				
PROPERTY NUMBERS Property Type	Total: 1	Number			
Property Type	Total: 1	Number 16456556			
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ASSIGNMENT

WHEREAS, we, Ahmad S. Khalil, Caleb J. Bashor, Nikit Patel, and James J. Collins, are desirous of assigning our entire right, title, and interest in and to all of the applications listed in TABLE A – LIST OF PATENT APPLICATIONS (hereinafter referred to as "THE APPLICATIONS"), and in and to any invention(s) disclosed in THE APPLICATIONS, and in and to any Letters Patents that may issue from THE APPLICATIONS;

TABLE A – LIST OF PATENT APPLICATIONS					
Attorney Docket No.	Country	Serial No.	Filing Date	Title	
701586- 086520USPT	US	16/456,556	2019-06-28	SYSTEMS AND METHODS FOR CONTROL OF GENE EXPRESSION	
701586- 086520WOPT	РСТ	PCT/US2019/039827	2019-06-28	SYSTEMS AND METHODS FOR CONTROL OF GENE EXPRESSION	

WHEREAS, TRUSTEES OF BOSTON UNIVERSITY, having its principal place of business at One Silber Way, Boston, MA 02215 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title, and interest in and to THE APPLICATIONS, and in and to any invention(s) disclosed in THE APPLICATIONS, and in and to any Letters Patents that may issue from THE APPLICATIONS;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign, and transfer to, and hereby acknowledge and confirm that we have sold, assigned, and transferred to ASSIGNEE, its successors, assigns, and legal representatives our entire right, title, and interest in and to THE APPLICATIONS, and in and to any invention(s) disclosed in THE APPLICATIONS, and in and to any Letters Patents that issue from THE APPLICATIONS, and all provisionals, non-provisionals, national stages, utilities, designs, divisionals, reissues, substitutions, continuations, continuations-in-part, and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for any invention(s) disclosed in THE APPLICATIONS, or patents resulting therefrom, insofar as our interest is concerned, to the ASSIGNEE of our entire right, title, and interest.

We also hereby sell and assign to the ASSIGNEE, its successors, assigns, and legal representatives the full and exclusive rights, title, and interest to any invention(s) disclosed in THE APPLICATIONS throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for any invention(s) disclosed in THE APPLICATIONS in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of any invention(s) disclosed in THE APPLICATIONS, and all rights to register any invention(s) disclosed in THE APPLICATIONS in appropriate registries.

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title, and interest in the ASSIGNEE, its successors, assigns, and legal representatives.

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PATENT REEL: 050281 FRAME: 0508

REEL: 050281 FRAME: 0509

ASSIGNOR

<u>uly</u> , 2019.	Ahmad S. Khalil, hereunto set my signature this 19 day of
	Sera i
STATE OF MASSACHUSET IS COUNTY OF SUPPOLK SS:	Ahmad S. Khalil
	2019, before me personally came the above-named, Ahmad S. Khalil, to ed the same of his/her own free will for the purposes therein set forth. Notary Public Notary Public Notary Public Massachusotis
ASSIGNOR	Commission Explicit Mar 20, 2020
IN TESTIMONY WHEREOF, I, , 2019.	Caleb J. Bashor, hereunto set my signature this day of
	Caleb J. Bashor
STATE OF SS:	
COUNTY OFSS:	
This day of me personally known as the individual who execute	2019, before me personally came the above-named, Caleb J. Bashor, to d the same of his/her own free will for the purposes therein set forth.
	Notary Public
ASSIGNOR	
	Notary Public Nikit Patel, hereunto set my signature this 26 day of
IN TESTIMONY WHEREOF, I,	Notary Public
IN TESTIMONY WHEREOF, I, 3 - 1 - 2019. STATE OF MASSACHUSE TTS COUNTY OF SUFFOLK SS: This 26 day of 41/11	Notary Public Nikit Patel, hereunto set my signature this 26 day of
IN TESTIMONY WHEREOF, I, 3 - 1 - 2019. STATE OF MASSACHUSE TTS COUNTY OF SUFFOLK SS: This 26 day of 41/11	Nikit Patel, hereunto set my signature this 26 day of Nikit Patel, hereunto set my signature this 26 day of Nikit Patel 2019, before me personally came the above-named, Nikit Patel, to me e same of his/her own free will for the purposes therein set forth.

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This _____ day of _____, 2019, before me personally came the above-named, Ahmad S. Khalil, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth. Notary Public

ASSIGNOR

IN TESTIMONY WHEREOF, I, Caleb J. Bashor, hereunto set my signature this 1 day of ___, 2019.

STATE OF <u>TERAS</u> COUNTY OF <u>HARPAS</u> SS:

STATE OF _____ SS:

This 19 day of Auloust , 2019, before me personally came the above-named, Caleb J. Bashor, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

4833-3426-4219.1

IN TESTIMONY WHEREOF, I, Nikit Patel, hereunto set my signature this day of ____, 2019.

COUNTY OF _____ STATE OF SS:

_____, 2019, before me personally came the above-named, Nikit Patel, to me This day of personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public

ASSIGNOR

STATE OF

IN TESTIMONY WHEREOF, I, Ahmad S. Khalil, hereunto set my signature this day of , 2019.

Ahmad S. Khalil

Customer No. 50607

Caleb J. Bashor



Nikit Patel

PATENT REEL: 050281 FRAME: 0510 Customer No. 50607

ASSIGNMENT Attorney Docket No.: 701586-086520USPT & WOPT

ASSIGNOR

	IMONY WHEREOF, I, James J. Collin 2019.	ns, hereunto set my signature this $\frac{74}{24}$ day of
state of <u>Mpe</u> county of <u>m</u>		James J. Collins
This 2 4	day of JULU , 2019, before me per as the individual who executed the same of his/her	rsonally came the above-named, James J. Collins , to
STEPHANIE P DI Notary Publik Cosinonweath of Mass My Commission E: May 2, 2025	RAKES CHUSETTS Notary Publ	mies P. Droke
	Barrid Barriel and Barr	
ASSIGNEE TRUSTEES OF E	BOSTON UNIVERSITY	
Signature:	ignature of Assignee	Date: <u>9/4/19</u>
Pr	rint Name Martin J. Howard Treasurer	
T	itle of Authorized Signatory	

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RECORDED: 09/05/2019