506501186 02/11/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT6547961 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YI ZHANG	10/27/2019
SHRIRANG KARVE	08/08/2019
FRANK DEROSA	08/08/2019
MICHAEL HEARTLEIN	08/08/2019

RECEIVING PARTY DATA

Name:	TRANSLATE BIO MA, INC.	
Street Address:	29 HARTWELL AVENUE	
City:	LEXINGTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02421	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17058334

CORRESPONDENCE DATA

Fax Number: (617)526-9899

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: skrishnaraj@proskauer.com

Correspondent Name: PROSKAUER ROSE LLP

Address Line 1: ONE INTERNATIONAL PLACE

Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER: MRT-2016US1

NAME OF SUBMITTER: SANG-A KIM, PH.D.

SIGNATURE: /Sang-Ah Kim, Reg. No. 78,330/

DATE SIGNED: 02/11/2021

Total Attachments: 8

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PATENT 506501186 REEL: 055235 FRAME: 0337

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PATENT REEL: 055235 FRAME: 0338

Docket Number: MRT-2016WO

COMBINED JOINT ASSIGNMENT & DECLARATION

A. ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Yi Zhang	Lexington, Massachusetts
2. Shrirang Karve	Lexington, Massachusetts
3. Frank DeRosa	Lexington, Massachusetts
4. Michael Heartlein	Lexington, Massachusetts

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

	epared for filing in the Unite entified by United States Ap		rademark Office; or
	nited States Patent and Trade		; and
x ide	ntified by International Pate May 30, 2019	nt Application No.	PCT/US19/34651
x an	d is also aware of the follow	ing priority applicatio	ns:
	Serial No.		Filed
	62/677,821		/ 30. 2018

WHEREAS Translate Bio MA, Inc. (hereinafter "ASSIGNEE"), having a usual place of business at 29 Hartwell Avenue, Lexington, MA 02421 desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, each of us has sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above,

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including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. Our sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including any divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by each of us had this sale, assignment and transfer not been made;

AND, each of us hereby acknowledges that this Assignment, being of our entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, each of us hereby further agrees for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts we know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, each of us further hereby authorizes ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, each of us hereby appoints ASSIGNEE as our common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, each of us hereby requests the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, each of us covenants with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

		ledged and agreed to by: e Bio MA, Inc.
	By:	Total Min
	Name:	Randall Morin
	Title:	Via President
	Date:	Oct. 10, 2019
STATE OF Massachuse S COUNTY OF Maddess Before me this 10 day of 000 Randall Morin Evidence of identity which was Knar signed on the preceding or attached docur same, of his/her own free will and for the	nent, and ac purposes se	d proved to me through satisfactory ///Leto be the person whose name is sknowledged that he/she executed the t forth.
		XATHLEEN MANZELLA Notary Public Massachusetts

My Commission Expires Mar 20, 2026

B. <u>DECLARATION (37 CFR 1.63)</u>

As below named inventors, we hereby declare that:

This declaration is directed to the patent application entitled:

CATIONIC LIPIDS COMPRISING A STEROIDAL MOIETY; and

	attached hereto or prepared for filing in the United Sta	ates Patent and Trademark
Office; o		
	identified by United States Application Serial No. ne United States Patent and Trademark Office on	
filed in t	ne United States Patent and Trademark Office on	; or
	identified by International Patent Application No.	PCT/US19/34651
filed on	May 30, 2019	

The above-identified application was made or authorized to be made by us.

We believe that we are the original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the application, including the claims and are aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

SIG	NED this 27	day of
		YiZhang
STATE OF	Massachuse	K s
COUNTY OF	Middlesex	SS
Before me this	27 day of Yi Zhang	Ochobe, 20 /9, personally appeared, and proved to me through satisfactory
signed on the pr	ntity which was 🔝	to be the person whose name is document, and acknowledged that he/she executed the for the purposes set forth.
		NOTARY PURITC

Name: Jharon

My Commission Expigitation M. WALKER

Notary Public

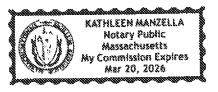
Commonwealth of Massachusetts

My Commission Expires

August 15, 2025

75 August 2025

SIGNED this 8 day of august, 2019
Shrirang Karve
STATE OF Massachusetts
COUNTY OF MIDDLESS.
Before me this 8 day of 0000 , 2019, personally appeared Shrirang Karve , and proved to me through satisfactory
evidence of identity which was <u>LIDAM</u> to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.
NOTARY PUBLIC
Name: Kullun Manyella My Commission Expires: 3/20/26



SIGNED this 8 day of August 2019
Frank DeRosa
STATE OF <u>Massachusetts</u>
COUNTY OF <u>Middlesel</u> ss.
Before me this 8 day of August , 20 19, personally appeared
Frank DeRosa, and proved to me through satisfactory
evidence of identity which was <u>lung</u> to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.
same, or maner own nee win and for the purposes set form.
NOTARY PUBLIC

Name: LUC

My Commission Expires:



SIG	NED this 8 day of GUGUST, 2019 Michael Heartlew
STATE OF	Massachusetts
COUNTY OF	middlesex ss.
Before me this	
signed on the pr	ntity which was VNOW TO MU to be the person whose name is receding or attached document, and acknowledged that he/she executed the own free will and for the purposes set forth.

NOTARY PUBLIC

My Commission Expires:

Name:

