

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5515688

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
FRANK DEROSA	06/06/2017
MICHAEL HEARTLEIN	06/06/2017
DANIEL CRAWFORD	06/19/2018
SHRIRANG KARVE	06/06/2017
RECEIVING PARTY DATA	
Name:	RANA THERAPEUTICS
Street Address:	128 SPRING STREET
City:	LEXINGTON
State/Country:	MASSACHUSETTS
Postal Code:	02421
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16280772
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>	
Phone:	617.526.9600
Email:	oandrews@proskauer.com
Correspondent Name:	PROSKAUER ROSE LLP
Address Line 1:	ONE INTERNATIONAL PLACE
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	MRT-1237US1
NAME OF SUBMITTER:	FANGLI CHEN
SIGNATURE:	/Fangli Chen/
DATE SIGNED:	05/09/2019
Total Attachments: 8	
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JOINT 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. Frank DeRosa	Lexington, Massachusetts
2. Michael Heartlein	Lexington, Massachusetts
3. Daniel Crawford	Lexington, Massachusetts
4. Shrirang Karve	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:

MULTIMERIC CODING NUCLEIC ACID AND USES THEREOF

☐ prepared for filing in the United States Patent and Trademark Office; or

☒ identified by United States Application Serial No. 15/482,431
filed in the United States Patent and Trademark Office on; April 7, 2017; and

☐ identified by International Patent Application No. _____
filed on _____; and

☒ and is also aware of the following priority applications:

Serial No.	Filed
62/320,073	April 8, 2016

WHEREAS RaNA Therapeutics (hereinafter "ASSIGNEE"), having a usual place of business at 128 Spring Street, 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, 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 my 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;

Attorney Docket No.: MRT-1237US1

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.

Acknowledged and agreed to by:
RaNA Therapeutics

By: Randall Morin
Name: Randall Morin
Title: VP IP
Date: Jan 19, 2018

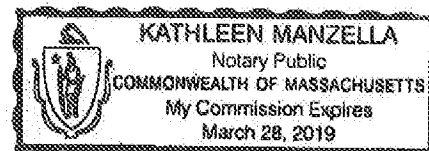
STATE OF Massachusetts
SS.
COUNTY OF Middlesex

Before me this 19 day of January, 2018, personally appeared

Randall MORIN, and proved to me through satisfactory evidence of identity which was known to me 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

Kathleen Manzella
Name: Kathleen Manzella
My Commission Expires: March 28, 2019



SIGNED this 6 day of June, 20 17

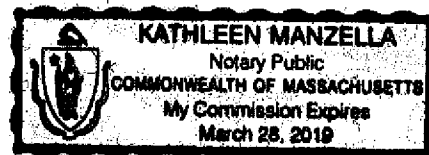

Frank DeRosa

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 6 day of June, 20 17, personally appeared
Frank DeRosa, and proved to me through satisfactory
evidence of identity which was known to me 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

Kathleen Manzella
Name: Kathleen Manzella
My Commission Expires: March 28, 2019



SIGNED this 06 day of June, 2017



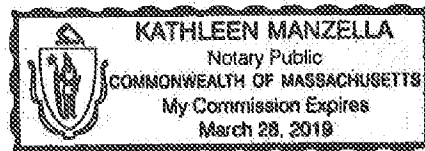
Michael Heartlein

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 06 day of June, 2017, personally appeared
Michael Heartlein, and proved to me through satisfactory
evidence of identity which was known to me 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

Kathleen Manzella
Name: Kathleen Manzella
My Commission Expires: March 28, 2019



SIGNED this 19th day of January, 20 18

[Signature]
Daniel Crawford

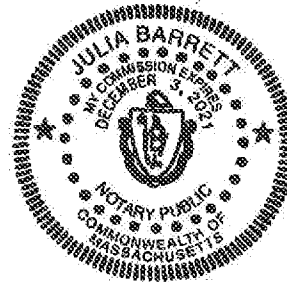
STATE OF Massachusetts
COUNTY OF Suffolk SS.

Before me this 19th day of January, 20 18, personally appeared
Daniel Crawford and proved to me through satisfactory
evidence of identity which was Dover Street 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: [Signature]

My Commission Expires: 12-3-21



SIGNED this 6 day of June, 2017

S.S. Karve
Shrirang Karve

STATE OF Massachusetts
COUNTY OF Middlesex SS.

Before me this 6 day of June, 2017, personally appeared
Shrirang Karve, and proved to me through satisfactory
evidence of identity which was known to me 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

Kathleen Manzella
Name: Kathleen Manzella
My Commission Expires: March 28, 2019

