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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAMUEL LAI	06/02/2015
ARTHI KANNAN	06/04/2015
KENETTA NUNN	05/26/2015
DURAI BABU SUBRAMANI	02/23/2018

RECEIVING PARTY DATA

Name:	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
Street Address:	109 CHURCH STREET
City:	CHAPEL HILL
State/Country:	NORTH CAROLINA
Postal Code:	27516

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14438511

CORRESPONDENCE DATA

Fax Number: (919)854-1401

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.

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Correspondent Name: MYERS BIGEL, P.A.

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ATTORNEY DOCKET NUMBER:	5470-682TS
NAME OF SUBMITTER:	BETTY-LOU MEDLIN
SIGNATURE:	/bettyloumedlin/
DATE SIGNED:	03/02/2018

Total Attachments: 6

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> PATENT REEL: 045091 FRAME: 0444

ASSIGNMENT

THIS ASSIGNMENT, made by us, Samuel Lai, a citizen of Canada, residing at 106 Oak

Spring Ct, Carrboro, North Carolina 27510; Arthi Kannan, a citizen of the United States of

America, residing at 359 Longmillgate Road, Morrisville, North Carolina 27560; Kennatta Kene Ha 150511

Nunn, a citizen of the United States of America, residing at 3325 Conchmuna Way, Durham, 113 Shinekawe. Apr 12

Hoscow, in 83943

North Carolina 27705; and Durai Babu Subramani, a citizen of India, residing at 1521 E.

Franklin Street #C206, Chapel Hill, North Carolina 27514;

WITNESSETH: That,

WHEREAS, we are the joint inventors, along with Ying-Ying Wang and Richard Cone, of certain new and useful improvements in COMPOSITIONS AND METHODS FOR INHIBITING PATHOGEN INFECTION for which U.S. Provisional Application No. 61/719,689 was filed on October 29, 2012 in the United States Patent and Trademark Office and PCT International Application No. PCT/US2013/067328 was filed on October 29, 2013, and U.S. Patent Application No. 14/438,511 was filed on April 24, 2015 in the United States Patent and Trademark Office; and

WHEREAS, The University of North Carolina at Chapel Hill, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina having a principal place of business at 100 Europa Drive, Suite 430, Chapel Hill, North Carolina 27517, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said applications, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and applications, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said applications in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee,

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its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and applications above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said assignce or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN A	/ITNESS WH	EREOF, I have he	ereunto set my	hand an	d seal on th	isday of
<u>s Inne</u>	, 2015.		19	,	2000 4 X 3	
	يغمي	Samuel Lai	3	Service	(SEAL)	

COUNTY OF Orange

Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein

ينجنسن

Notary Public

phoission Expires:

12, 20 20

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IN WITNES	S WHEREOF, I have hereunto set m	y hand and seal on this 4th day of
June,	2015. <u>K. Affü</u> Arthi Kasnan	(SEAL)
Witnessed By: P. Natohit	Date: 04/06/2015	
P. NACHIAPPAN	4th June 2015	

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day of
Hay, 2015. Kennetta Nunn Kenetta & 18050
STATE OF NORTH CAROLINA)
COUNTY OF Late 5
Before me personally appeared the person described in and who executed the foregoing
instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein
stated, this 26 day of $\sqrt{a_{A/}}$, 2015.
SEAL Notary Public
My Commission Expires: 0/a/az/2020
NOTARY AUGUSTANIAN

Attorney Docket No. 5470,682TS Application Serial No. 14/438,511

My Commission Expires:

Attorney Docket No. 5470.682TS Application Serial No. 14/438,511

WHEREBY The University of North Carolina at Chapel Hill acknowledges and accepts the assignment;

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day of February , 2018. The undersigned warrants and represents that he/she has the authority to sign this Assignment on behalf of the Assignee, The University of North Carolina at Chapel Hill.

By: Jacqueline Quay (SEAL)

STATE OF NORTH CAROLINA)

COUNTY OF ORANGE

Before me personally appeared the person described in and who executed the foregoing instrument, and he/she acknowledged to me that he/she executed the same for the purposes ti. therein stated, this 26th day of February, 2018.

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RECORDED: 03/02/2018