

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5244404

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAMUEL LAI	10/03/2018
ARTHI KANNAN	11/08/2018
KENETTA NUNN	10/14/2018
DURAI BABU SUBRAMANI	10/30/2018
BING YANG	09/27/2018
JUSTIN MCCALLEN	09/29/2018
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:	16138643
CORRESPONDENCE DATA	
Fax Number:	(919)854-1401
<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:	919-854-1400
Email:	bmedlin@myersbigel.com
Correspondent Name:	MYERS BIGEL, P.A.
Address Line 1:	P.O. BOX 37428
Address Line 4:	RALEIGH, NORTH CAROLINA 27627
ATTORNEY DOCKET NUMBER:	5470-682TSIP
NAME OF SUBMITTER:	BETTY-LOU MEDLIN
SIGNATURE:	/bettyloumedlin/
DATE SIGNED:	11/19/2018
Total Attachments: 11	

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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, ^{23 UNION SQ, APT 1414, UNION CITY, CA 94587 AK 11/8/18 K. Kannan} ~~residing at 02-521, Blk 303, Clementi Avenue 4, Singapore, 120303~~; Kenettii Nunn, a citizen of the United States of America, residing at 113 Styner Avenue, Apt. 12, Moscow, Idaho 83843; Durai Babu Subramani, a citizen of India, residing at 1521 E. Franklin Street #C206, Chapel Hill, North Carolina 27514; Bing Yang, a citizen of the United States of America, having a mailing address of 105 Crane Meadow Place, Chapel Hill, North Carolina 27514; and Justin McCallen, a citizen of the United States of America, having a mailing address of 200 Fosbury Way, Apt. C, Greenville, North Carolina 27834; and

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. Patent Application No. 16/138,643 was filed on September 21, 2018 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 109 Church Street, Chapel Hill, North Carolina 27516, 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,

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 02-521, Blk 303, Clementi Avenue 4, Singapore, 120303; Kenetta Nunn, a citizen of the United States of America, residing at ~~443 Styer Avenue, Apt. 12, Moscow, Idaho 83843~~ ^{242 N Asbury St, # 1 East 10/1/18}; Dural Babu Subramani, a citizen of India, residing at 1521 E. Franklin Street #C206, Chapel Hill, North Carolina 27514; Bing Yang, a citizen of the United States of America, having a mailing address of 105 Crane Meadow Place, Chapel Hill, North Carolina 27514; and Justin Meslin, a citizen of the United States of America, having a mailing address of 200 Fosbury Way, Apt. C, Greenville, North Carolina 27834; and

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. Patent Application No. 16/138,643 was filed on September 21, 2018 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 109 Church Street, Chapel Hill, North Carolina 27516, 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,

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 02-521, Blk 303, Clementi Avenue 4, Singapore, 120303; Kenetta Nunn, a citizen of the United States of America, residing at 113 Styner Avenue, Apt. 12, Moscow, Idaho 83843; Durai Babu Subramani, a citizen of India, residing at 1521 E. Franklin Street #C206, Chapel Hill, North Carolina 27514; Bing Yang, a citizen of the United States of America, having a mailing address of 105 Crane Meadow Place, Chapel Hill, North Carolina 27514; and Justin McCallen, a citizen of the United States of America, having a mailing address of ^{2760 W. Arlington Blvd.} ~~200 Fosbery Way, Apt. C~~ ^{JM 9/29/18} Greenville, North Carolina 27834; and

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. Patent Application No. 16/138,643 was filed on September 21, 2018 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 109 Church Street, Chapel Hill, North Carolina 27516, 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,

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 assignee 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.

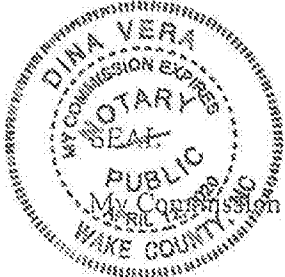
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 3rd day of October, 2018.

Samuel Lai (SEAL)
Samuel Lai

STATE OF NORTH CAROLINA)
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 stated, this 3rd day of October, 2018.

[Signature]
Notary Public



My Commission Expires: 4/12/2020
Page 2 of 8

Attorney Docket No. 5470-682TSIP

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 8th day of
November, 2018.

K. Arthi (SEAL) SEE ATTACHED
Arthi Kannan

Witnessed By
P. Natchaiy Date: 11/8/18

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

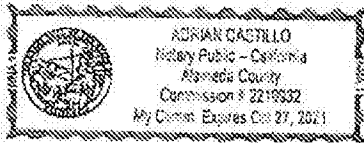
State of California

County of Alameda

On 11/8/2018 before me, ADRIAN CASTILLO, Notary Public

personally appeared AETM KARANIAN Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature] Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: PATENT APPLICATION

Document Date: 11/8/2018 Number of Pages: 3

Signer(s) Other Than Named Above: SAMUEL HA...

Capacity(ies) Claimed by Signer(s)

Signer's Name: Signer's Name:

Corporate Officer - Title(s): Corporate Officer - Title(s):

Partner - Limited General Partner - Limited General

Individual Attorney in Fact Individual Attorney in Fact

Trustee Guardian of Conservator Trustee Guardian of Conservator

Other: Other:

Signer is Representing: Signer is Representing:

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day of October, 2018.

Kenneth Nunn (SEAL)
Kenneth Nunn

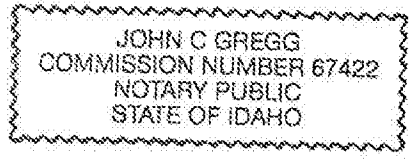
STATE OF IDAHO)
COUNTY OF LATAH)

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 17th day of October, 2018.

John C. Gregg
Notary Public

SEAL

My Commission Expires: 9/31/2022

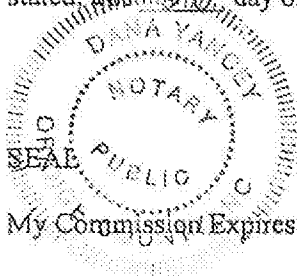


IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 30 day of OCTOBER, 2018.

Durai Babu Subramani (SEAL)
Durai Babu Subramani


STATE OF NORTH CAROLINA)
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 stated, this 30 day of OCTOBER, 2018.



Dana Yancey
Notary Public

My Commission Expires: AUGUST 11 2023

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 27 day of Sep, 2018.


Bing Yang (SEAL)

STATE OF NORTH CAROLINA)
COUNTY OF Orange)

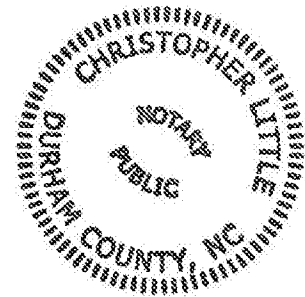
Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 27 day of SEPTEMBER, 2018.



Notary Public

SEAL

My Commission Expires: July 24, 2019



IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 29th day of September, 2018.

Justin McCallen (SEAL)
Justin McCallen

STATE OF NORTH CAROLINA)

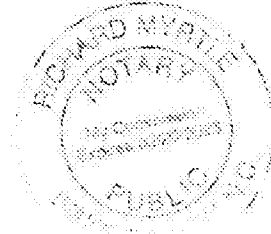
COUNTY OF WAKE }

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 29th day of SEPTEMBER, 2018.

Richard Myrtle
Notary Public

SEAL

My Commission Expires: 2/20/2023



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 13th day of November, 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 Gray (SEAL)

Title: Director of Licensing

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 therein stated, this 13th day of November, 2018.



Daris Bonita Perry
Notary Public

My Commission Expires: June 28, 2020