

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5921979

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JAMES E. GALEN	05/29/2018
THANH PHAM	05/29/2018
JIN-YUAN WANG	01/16/2020
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF MARYLAND, BALTIMORE
Street Address:	620 WEST LEXINGTON STREET, 4TH FLOOR
Internal Address:	OFFICE OF RESEARCH & DEVELOPMENT, OTT
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21201
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16614261
CORRESPONDENCE DATA	
Fax Number:	(410)706-1066
<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>	
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Correspondent Name:	DENISE M. MEYER
Address Line 1:	620 WEST LEXINGTON STREET, 4TH FLOOR
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ATTORNEY DOCKET NUMBER:	JG-2017-049US UMB-044US1
NAME OF SUBMITTER:	DENISE M. MEYER
SIGNATURE:	/Denise M. Meyer/
DATE SIGNED:	01/22/2020
Total Attachments: 3	
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ASSIGNMENT

In consideration of UMB's agreement to consider Assignors as a "UMB Inventors" who are entitled to revenue distributions under the University System of Maryland Policy on Intellectual Property, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **James E. Galen, Thanh Pham, Dacie R. Bridge and Jin-Yuan Wang** ("Assignors") hereby convey, assign, and transfers to the **University of Maryland, Baltimore**, a public university that is part of the University System of Maryland (which is a public corporation and an instrumentality of the State of Maryland) ("UMB"), and having an office c/o Office of Research and Development, 620 W. Lexington Street, 4th floor, Baltimore, MD 21201, their entire right, title, and interest in and to the invention known as **"Live Salmonella Typhi Vectors Engineered to Express Heterologous Outer Membrane Protein Antigens and Methods of Use Thereof"** (the "Invention");

check applicable space(s) ☒ for the United States of America (as defined in 35 U.S.C. §100)
☒ and throughout the world,

for which application(s) for patent was under the Patent Cooperation Treaty on **May 15, 2018** (also known as international patent application number **PCT/US2018/032662**, and in any and all non-provisional and/or international or foreign patent applications thereon, continuing patent applications thereon (including without limitation substitutions, divisionals, continuations, and continuations-in-part), patents or Letters Patent issued therefrom, and reissues, extensions, renewals, and reexaminations of such applications or patents.

Such entire right, title, and interest in the Invention are to be held and enjoyed by UMB to the same extent as they would have been held and enjoyed by Assignors had this Assignment not been made, to the full end of the term or terms for which any such patent(s) issue. Assignors hereby represent and warrant that they have full right to convey their right, title, and interest in the Invention herein assigned, and that they have not executed and will not execute any agreement or other document in conflict therewith.

Assignors agree to execute and deliver separate Assignments, patent applications, and other documents necessary or expedient in connection with, and to cooperate with and to assist UMB in connection with: further perfecting the assignment of the Invention to UMB; UMB's preparation, filing, prosecution (including without limitation defense in interference proceedings, reexaminations, or litigation), enforcement, and/or maintenance of the patents and patent applications; or for UMB to protect and commercialize its intellectual property right, title, and interests in the Invention (including without limitation copyright and/or trademarks).

IN WITNESS WHEREOF, executed by Assignor(s) on the date opposite his/her name.

ASSIGNOR:

MAY 29, 2018
 Date

James E. Galen (SEAL)
 James E. Galen

Address:
5807 Victor Drive
Eldersburg, Maryland 21784-8439

STATE OF Maryland)
 CITY / COUNTY OF Baltimore)

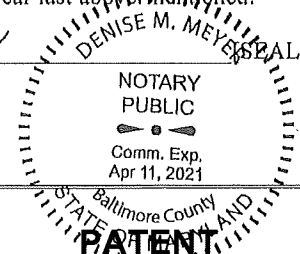
I HEREBY CERTIFY, that on this 29 day of May, 2018, before me, Notary Public of the State of Maryland, personally appeared **James E. Galen**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above mentioned.

Denise M. Meyer
 Notary Public

My Commission Expires: 4-11-2021

{00074590-2}



ASSIGNOR:

05/29/2018
Date

Thanh Pham (SEAL)
Thanh Pham

Address:
6803 Old Waterloo Rd., Apt 803
Elkridge, MD 21075

STATE OF _____)
CITY / COUNTY OF _____)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared **Thanh Pham**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

Notary Public [SEAL]

My Commission Expires: _____

ASSIGNOR:

Date

Dacie R. Bridge (SEAL)

Address:
272 Pizza Barn Road
Blairsville, Pennsylvania 15715

STATE OF _____)
CITY / COUNTY OF _____)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared **Dacie R. Bridge**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

Notary Public [SEAL]

My Commission Expires: _____

UMB Docket No: JG-2017-049

Y16/2020

Date

ASSIGNOR:

Jin-Yuan Wang

(SEAL)

Address:

13105 Shinnecock Drive

Silver Spring, Maryland 20904

STATE OF

CITY / COUNTY OF

)
)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared **Jin-Yuan Wang**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

Notary Public

[SEAL]

My Commission Expires: _____

{00074590-2}

RECORDED: 01/22/2020

PATENT
REEL: 051578 FRAME: 0648