

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7582815

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LUIS BRITO	07/10/2022
DELAI CHEN	07/11/2022
ANDREW GEALL	07/06/2022
KEVIN LOVE	07/08/2022
RECEIVING PARTY DATA	
Name:	NOVARTIS VACCINES AND DIAGNOSTICS, INC.
Street Address:	ONE SOUTH RIDGEDALE AVENUE
City:	EAST HANOVER
State/Country:	NEW JERSEY
Postal Code:	07936
PROPERTY NUMBERS Total: 1	
Property Type	Number
PCT Number:	US1470891
CORRESPONDENCE DATA	
Fax Number:	(312)321-4299
<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:	3123214200
Email:	usassignments@crowell.com, esmolinski@crowell.com
Correspondent Name:	ADAM D SUSSMAN
Address Line 1:	455 N CITYFRONT PLAZA
Address Line 2:	P.O. BOX 10395
Address Line 4:	CHICAGO, ILLINOIS 60610
ATTORNEY DOCKET NUMBER:	515607.5000203FAMILY
NAME OF SUBMITTER:	ADAM D. SUSSMAN
SIGNATURE:	/Adam D. Sussman/
DATE SIGNED:	10/10/2022
Total Attachments: 20	
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source=PAT055894-WO-PCT_Inventors to NVS Vacc#page20.tif

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Luis Brito	citizen of United States of America	66 Raymond Rd Concord MA 01742
Delai Chen	citizen of United States of America	36 Sheridan Circle Winchester, MA 01890 USA
Andrew Geall	citizen of United Kingdom	3571 Calle Palmito Carlsbad, CA 92009
Kevin LOVE	citizen of United States of America	3 Thurston Street Somerville, MA 02145 US

(hereinafter "Inventor(s)"),

and **NOVARTIS VACCINES AND DIAGNOSTICS, INC.**, One South Ridgedale Avenue East Hanover, NJ 07936, United States of America, a company organized under the laws of Delaware.

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I/We the Inventor(s) do hereby confirm and agree that, by operation of law and/or contract, and/or by the fulfillment of any and all legal requirements regarding the transfer of employee inventions in my/our country of employment, **NOVARTIS VACCINES AND DIAGNOSTICS, INC.** is the true and lawful owner of all right, title and interest in all inventions, discoveries, patents/utility models, applications, and rights described in paragraphs (1) through (8) below.

If, however, under the laws of any country, I/We the Inventor(s) nevertheless have any ownership right, title or interest in any of the items described herein (which I/We do not believe to be the case and make no claim in or to), for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/We the Inventor(s) do hereby sell, assign and transfer to **NOVARTIS VACCINES AND DIAGNOSTICS, INC.** and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), all of my/our right, title and interest for all countries of the world in and to

(1) all of my/our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS

and filed as a PCT Application on December 17, 2014 and accorded Application Number PCT/US2014/070891;

(2) the application(s) identified in paragraph (1), and all applications claiming priority from such application(s), directly or indirectly, including all national stages of any international patent application(s);

(3) the right to file patent, utility model, or other applications on any invention or discovery disclosed in any of the applications identified in paragraphs (1) and (2), including the right to file such applications on said inventions and discoveries in the names of ASSIGNEE or their designees or in our/my name, at ASSIGNEE's election and in accordance with applicable law in all countries and regions; and the right to file all patent, utility model, or other applications in all countries and regions claiming the priority of any of the provisional or non-provisional application(s) identified in paragraphs (1) or (2);

(4) all rights to claim priority from any of the applications referred to in paragraphs (1), (2), and (3) or from any application from which any of the applications referred to in paragraphs (1), (2) and (3) claim priority in all countries and regions under the Paris Convention for the Protection of Industrial Property, the WTO GATT TRIPS Agreement, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application is a provisional patent application, under 35 USC 119(e);

(5) all continuations, continuations-in-part, and divisionals of any United States patent application(s) or international patent application(s) designating the United States, any national stages of any international application(s), and any other patent application(s) described in paragraphs (1) through (4) hereof, including further continuations, continuations-in-part, and divisionals such as, but not limited to, continuations of continuations and continuations of divisionals;

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(7) all registrations and confirmations of, and importation certificates based upon, one or more of said patents, utility models, or other grants, and applications for such registrations, confirmations and importation certificates and;

(8) all reissues, renewals and extensions of said patents, utility models, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said ASSIGNEE to the full ends of the terms for which said patents, utility models, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this sale, assignment and transfer had not been made.

I/We the Inventor(s) hereby authorize ASSIGNEE and their representatives to insert in paragraph (1) of this Assignment the filing date(s) and Application Number(s) of said patent, utility model, or other application(s) when notified thereof.


I/We the Inventor(s) hereby covenant and agree that I/We will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates, and applications within the scope of (7) and (8), in ASSIGNEE, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE execute all additional applications within the scope of paragraphs (1) through (6) and all applications within the scope of (7) or (8), and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE.

Should any provision of this Assignment be deemed invalid or unenforceable by reason of any law, statute, regulation or judgment, existing now or in the future in any jurisdiction, such provision shall be modified in such jurisdiction so as to nearly approximate the intent of the Parties. If this cannot be done, such invalid or unenforceable provision shall be divisible and be deleted in any such jurisdiction, and all other provisions shall remain in full force and effect. The modification or deletion of any provision in one jurisdiction shall have no effect on this Assignment in any other jurisdiction.

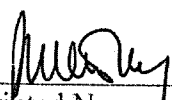
This Assignment shall be governed by the laws of Delaware.

This Assignment is effective as from the earliest priority date as stated above.

Executed this 10 day of July, 2022.


Luis Brito

Witness: Helen McKinlay
Printed Name: HELEN MCKINLAY
City, State and Country: CONCORD, MA, U.S.A.

Witness: 
Printed Name: PAUL MCKINLAY
City, State and Country: CONCORD, MA, U.S.A.

Executed this _____ day of _____, 20____.

Delai Chen

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this _____ day of _____, 20____.

Andrew Geall

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this _____ day of _____, 20_____.

Kevin Love

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this 13 day of July, 2022.

NOVARTIS VACCINES AND DIAGNOSTICS, INC.

BY [Signature]
Printed Name: Stphanie Ous
Authorized Signatory

Witness: [Signature]
Printed Name: Amanda A. Smith
City, State and Country: 700 Main Street
Cambridge, MA 02139

Witness: [Signature]
Printed Name: Gaby Martinez
City, State and Country: Gaby Martinez
700 Main Street
Cambridge, MA 02139 US

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Luis Brito	citizen of United States of America	66 Raymond Rd Concord MA 01742
Delai Chen	citizen of United States of America	36 Sheridan Circle Winchester, MA 01890 USA
Andrew Geall	citizen of United Kingdom	3571 Calle Palmito Carlsbad, CA 92009
Kevin LOVE	citizen of United States of America	3 Thurston Street Somerville, MA 02145 US

(hereinafter "Inventor(s)"),

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If, however, under the laws of any country, I/We the Inventor(s) nevertheless have any ownership right, title or interest in any of the items described herein (which I/We do not believe to be the case and make no claim in or to), for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/We the Inventor(s) do hereby sell, assign and transfer to **NOVARTIS VACCINES AND DIAGNOSTICS, INC.** and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), all of my/our right, title and interest for all countries of the world in and to

(1) all of my/our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS

and filed as a PCT Application on December 17, 2014 and accorded Application Number PCT/US2014/070891;

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(3) the right to file patent, utility model, or other applications on any invention or discovery disclosed in any of the applications identified in paragraphs (1) and (2), including the right to file such applications on said inventions and discoveries in the names of ASSIGNEE or their designees or in our/my name, at ASSIGNEE's election and in accordance with applicable law in all countries and regions; and the right to file all patent, utility model, or other applications in all countries and regions claiming the priority of any of the provisional or non-provisional application(s) identified in paragraphs (1) or (2);

(4) all rights to claim priority from any of the applications referred to in paragraphs (1), (2), and (3) or from any application from which any of the applications referred to in paragraphs (1), (2) and (3) claim priority in all countries and regions under the Paris Convention for the Protection of Industrial Property, the WTO GATT TRIPS Agreement, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application is a provisional patent application, under 35 USC 119(e);

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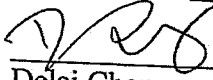
Executed this _____ day of _____, 20_____.

Luis Brito

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this 11th day of July, 2022.



Delai Chen

Witness: Jing Li, Winchester, MA, USA

Printed Name:
City, State and Country:

Witness: Yao Lu, Winchester, MA, USA

Printed Name:
City, State and Country:

Executed this _____ day of _____, 20_____.

Andrew Geall

Witness: _____

Printed Name:
City, State and Country:

Witness: _____

Printed Name:
City, State and Country:

Executed this _____ day of _____, 20_____.

Kevin Love

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this 13 day of July, 2022.

NOVARTIS VACCINES AND DIAGNOSTICS, INC.

BY [Signature]
Printed Name: Stephanie Reis
Authorized Signatory

Witness: [Signature]
Printed Name: Amanda A. Smith
City, State and Country: 700 Main Street
Cambridge, MA 02139

Witness: [Signature]
Printed Name: Gaby Martinez
City, State and Country: 700 Main Street
Cambridge, MA 02139 US

ASSIGNMENT

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Delai Chen	citizen of United States of America	36 Sheridan Circle Winchester, MA 01890 USA
Andrew Geall	citizen of United Kingdom	3571 Calle Palmito Carlsbad, CA 92009
Kevin LOVE	citizen of United States of America	3 Thurston Street Somerville, MA 02145 US

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LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS

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I/We the Inventor(s) hereby covenant and agree that I/We will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates, and applications within the scope of (7) and (8), in ASSIGNEE, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE execute all additional applications within the scope of paragraphs (1) through (6) and all applications within the scope of (7) or (8), and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE.

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Executed this _____ day of _____, 20_____ .

Luis Brito

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this _____ day of _____, 20_____.

Delai Chen

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this _____ day of _____, 20_____.

Andrew Geall

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this 8th day of July, 2022.

Kevin Love
Kevin Love

Witness: Vishwesh Patel, ARLINGTON, MA, USA
Printed Name:
City, State and Country: V Patel

Witness: SHASHANK SHUKLA, BILLERICA, MA, USA
Printed Name:
City, State and Country: S Shukla

Executed this 13 day of July, 2022.

NOVARTIS VACCINES AND DIAGNOSTICS, INC.

BY Stephanie Bas
Printed Name: Stephanie Bas
Authorized Signatory

Witness: Amanda A. Smith
Printed Name: Amanda A. Smith
City, State and Country: 700 Main Street
Cambridge, MA 02139

Witness: Gaby Martinez
Printed Name: Gaby Martinez
City, State and Country: 700 Main Street
Cambridge, MA 02139 US

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Luis Brito	citizen of United States of America	66 Raymond Rd Concord MA 01742
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(2) the application(s) identified in paragraph (1), and all applications claiming priority from such application(s), directly or indirectly, including all national stages of any international patent application(s);

(3) the right to file patent, utility model, or other applications on any invention or discovery disclosed in any of the applications identified in paragraphs (1) and (2), including the right to file such applications on said inventions and discoveries in the names of ASSIGNEE or their designees or in our/my name, at ASSIGNEE's election and in accordance with applicable law in all countries and regions; and the right to file all patent, utility model, or other applications in all countries and regions claiming the priority of any of the provisional or non-provisional application(s) identified in paragraphs (1) or (2);

(4) all rights to claim priority from any of the applications referred to in paragraphs (1), (2), and (3) or from any application from which any of the applications referred to in paragraphs (1), (2) and (3) claim priority in all countries and regions under the Paris Convention for the Protection of Industrial Property, the WTO GATT TRIPS Agreement, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application is a provisional patent application, under 35 USC 119(e);

(5) all continuations, continuations-in-part, and divisionals of any United States patent application(s) or international patent application(s) designating the United States, any national stages of any international application(s), and any other patent application(s) described in paragraphs (1) through (4) hereof, including further continuations, continuations-in-part, and divisionals such as, but not limited to, continuations of continuations and continuations of divisionals;

(6) all patents, utility models, or other grants that issue from any of the applications referred to herein and all rights and remedies associated therewith including the right to sue for and recover past damages and to recover under 35 U.S.C. § 154 (d) or any other law permitting remedies for infringement prior to issuance of the patent;

(7) all registrations and confirmations of, and importation certificates based upon, one or more of said patents, utility models, or other grants, and applications for such registrations, confirmations and importation certificates and;

(8) all reissues, renewals and extensions of said patents, utility models, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said ASSIGNEE to the full ends of the terms for which said patents, utility models, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this sale, assignment and transfer had not been made.

I/We the Inventor(s) hereby authorize ASSIGNEE and their representatives to insert in paragraph (1) of this Assignment the filing date(s) and Application Number(s) of said patent, utility model, or other application(s) when notified thereof.

I/We the Inventor(s) hereby covenant and agree that I/We will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates, and applications within the scope of (7) and (8), in ASSIGNEE, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE execute all additional applications within the scope of paragraphs (1) through (6) and all applications within the scope of (7) or (8), and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE.

Should any provision of this Assignment be deemed invalid or unenforceable by reason of any law, statute, regulation or judgment, existing now or in the future in any jurisdiction, such provision shall be modified in such jurisdiction so as to nearly approximate the intent of the Parties. If this cannot be done, such invalid or unenforceable provision shall be divisible and be deleted in any such jurisdiction, and all other provisions shall remain in full force and effect. The modification or deletion of any provision in one jurisdiction shall have no effect on this Assignment in any other jurisdiction.

This Assignment shall be governed by the laws of Delaware.

This Assignment is effective as from the earliest priority date as stated above.

Executed this 8th day of July, 2022.

Luis Brito

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this _____ day of _____, 20_____.

Delai Chen

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this 6th day of July, 2022.

Andrew Geall

Witness: _____
Printed Name: Shigeki Miyake Stoner
City, State and Country: San Diego, CA USA

Witness: _____
Printed Name: JACQUELINE POBY
City, State and Country: Lakeside, CA USA

Executed this _____ day of _____, 20_____.

Kevin Love

Witness: _____
Printed Name:
City, State and Country:

Witness: _____
Printed Name:
City, State and Country:

Executed this 13 day of July 2022.

NOVARTIS VACCINES AND DIAGNOSTICS, INC.

BY [Signature]
Printed Name: Stephanie Beer
Authorized Signatory

Witness: [Signature]
Printed Name: Amanda A. Smith
City, State and Country: 700 Main Street
Cambridge, MA 02139

Witness: [Signature]
Printed Name: Gaby Martinez
City, State and Country: Gaby Martinez
700 Main Street
Cambridge, MA 02139 US