

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6670372

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA	03/10/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOVARTIS AG
<b>Street Address:</b>	LICHTSTRASSE 35
<b>City:</b>	BASEL
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	4056
<b>Name:</b>	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
<b>Street Address:</b>	3160 CHESTNUT STREET
<b>Internal Address:</b>	SUITE 200
<b>City:</b>	PHILADELPHIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19104
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15113044
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)395-7070
<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>	
<b>Phone:</b>	(617) 395-7011
<b>Email:</b>	RGPatents@LALaw.com
<b>Correspondent Name:</b>	LANDO & ANASTASI, LLP
<b>Address Line 1:</b>	60 STATE STREET, 23RD FLOOR
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02109
<b>ATTORNEY DOCKET NUMBER:</b>	N2067-7036US
<b>NAME OF SUBMITTER:</b>	ROSHNI GHOSH
<b>SIGNATURE:</b>	/Roshni Ghosh/
<b>DATE SIGNED:</b>	04/22/2021

**Total Attachments: 3**

source=N2067-7036WO-US Executed Assignment UPenn to NAG\_UPenn#page1.tif

source=N2067-7036WO-US Executed Assignment UPenn to NAG\_UPenn#page2.tif

source=N2067-7036WO-US Executed Assignment UPenn to NAG\_UPenn#page3.tif

**ASSIGNMENT**

WHEREAS, we, The Trustees Of The University Of Pennsylvania of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, a university of higher education in Pennsylvania hereinafter generally referred to as "ASSIGNOR," have acquired the entire right, title and interest in and to

**ENHANCED ANTIGEN PRESENTING ABILITY OF RNA CAR T CELLS BY CO-INTRODUCTION OF COSTIMULATORY MOLECULES**

filed as a PCT International Application on January 21, 2015 and accorded International Patent Application Number PCT/US2015/012284;

and filed in the United States Patent and Trademark Office on July 29, 2016 and accorded Patent Application Number 15/113,044;

AND, WHEREAS, The Trustees Of The University Of Pennsylvania of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, a university of higher education in Pennsylvania, and Novartis AG, a company incorporated in Switzerland whose address is Lichtstrasse 35, 4056 Basel, Switzerland, hereinafter referred to as the "ASSIGNEES", are desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and to any patent application(s) corresponding thereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in exchange for valuable consideration from the receipt of which is hereby acknowledged and intending to be bound, we, the said assignor, have sold, assigned, transferred and set over, effective as of the execution date of this assignment and by these presents do hereby sell, assign, transfer and set over to said assignees, the entire right, title and interest in and to said inventions or improvements and said provisional application and any and all corresponding patent application(s) and continuations, divisions and renewals of and substitutes for said corresponding patent application(s), and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignees, to file in our names corresponding patent applications for Letters Patent in all countries, the same to be held and enjoyed by said assignees, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said

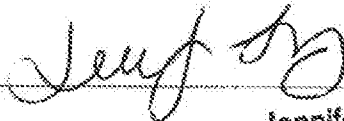
inventions or improvements, said application and said Letters Patent to said assignees, its successors, assigns, nominees or legal representatives, and we agree to communicate to said assignees, or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignees, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents of applications as aforesaid, to issue to said assignees, as assignees of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

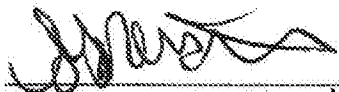
IN WITNESS WHEREOF, we have hereunto set our hand and seal.

**THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA**

Executed this 10<sup>th</sup> day of March, 2020

BY  L.S.  
Name: Jennifer Langenberger  
Title: Authorized Signatory Chief Operations Officer

Witnessed by:

  
Name: Samantha Haber Name:  
Address: 300 Civic Center Blvd Address:  
9th Floor  
Philadelphia, PA 19104

NOVARTIS AG

Executed this 19 day of April, 2021

BY *Julie McCarty* L.S.  
Name: Julie McCarty  
Title: Authorized Signatory

Witnessed by:

\_\_\_\_\_  
Name:  
Address:

\_\_\_\_\_  
Name:  
Address:

BY *Alicia R. Mohr* L.S.  
Name: Alicia R. Mohr  
Title: Authorized Signatory

Witnessed by:

\_\_\_\_\_  
Name:  
Address:

\_\_\_\_\_  
Name:  
Address: