

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA	05/23/2016
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14981142
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ATTORNEY DOCKET NUMBER:	N2067-706710
NAME OF SUBMITTER:	MANDEEP KAUR
SIGNATURE:	/Mandeep Kaur/
DATE SIGNED:	03/04/2019

Total Attachments: 3

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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 of Felipe Bedoya, Saba Ghassemi, Carl H. June, Bruce L. Levine, Jan J. Melenhorst, Michael C. Milone, Daniel J. Powell, Jr., and Zoe Zheng by virtue of the assignments dated January 20, 2016 and January 13, 2016, January 4, 2016, January 5, 2016, January 5, 2016, December 17, 2015, January 6, 2016, January 4, 2016 and January 6, 2016 respectively, in and to

METHODS OF MAKING CHIMERIC ANTIGEN RECEPTOR --EXPRESSING CELLS

for which we have filed U.S. Provisional Patent Application No.: 62/097,375 filed December 29, 2014; and U.S. Provisional Patent Application No.: 62/133,137 filed March 13, 2015;

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.

May 23, 2016
Date

Jennifer Langenberger (Seal)
NAME:
Jennifer Langenberger
Director, Intellectual Property
TITLE:

STATE/Commonwealth of Pennsylvania
COUNTY OF Philadelphia : ss.

Before me, a notary public in and for the State and County aforesaid, on this 26th day of May, 2016, personally appeared _____, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his/her free deed and act, signed, sealed and delivered by his/her for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Jacqueline Miraglia
Notary Public
My Commission Expires: Aug. 29, 2019

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Jacqueline Miraglia, Notary Public
City of Philadelphia, Philadelphia County
My Commission Expires Aug. 29, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES