

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	NOVARTIS AG	01/16/2017
RECEIVING PARTY DATA		
Name:	NOVARTIS AG	
Street Address:	LICHTSTRASSE 35	
City:	BASEL	
State/Country:	SWITZERLAND	
Postal Code:	4056	
Name:	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA	
Street Address:	3160 CHESTNUT STREET	
Internal Address:	SUITE 200	
City:	PHILADELPHIA	
State/Country:	PENNSYLVANIA	
Postal Code:	19104	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16038860	
CORRESPONDENCE DATA		
Fax Number:	(512)322-8330	
<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:	512-322-2500	
Email:	tracy.engberg@bakerbotts.com	
Correspondent Name:	BAKER BOTTS L.L.P. PATENT DEPARTMENT	
Address Line 1:	98 SAN JACINTO BLVD., SUITE 1500	
Address Line 4:	AUSTIN, TEXAS 78701-4039	
ATTORNEY DOCKET NUMBER:	063768.0149	
NAME OF SUBMITTER:	TRACY E. ENGBERG	
SIGNATURE:	/Tracy E. Engberg/	
DATE SIGNED:	07/18/2018	

Total Attachments: 5

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ASSIGNMENT

This Assignment Agreement is entered into by and between NOVARTIS AG, a company incorporated in Switzerland whose address is Lichtstrasse 35, 4056 Basel, Switzerland and NOVARTIS AG, a company incorporated in Switzerland whose address is Lichtstrasse 35, 4056 Basel, Switzerland and The Trustees Of The University Of Pennsylvania, a university of higher education in Pennsylvania, whose address is 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104.

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, NOVARTIS AG does hereby sell, assign and transfer to NOVARTIS AG and The Trustees Of The University Of Pennsylvania and their successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEES"), all of its right, title and interest for all countries of the world in and to

(1) all inventions and discoveries described in the provisional or non-provisional patent application(s) entitled

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and filed in the United States Patent and Trademark Office on January 19, 2016 and accorded Application Number 62/280,548 and/or filed as a PCT International Application on _____, 20____ and accorded International Patent Application Number PCT/_____; and/or filed in the United States Patent and Trademark Office on _____, 20____ and accorded Application Number _____;

(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 ASSIGNEES or their designees, or on behalf or in the name(s) of the inventor(s) of said inventions and discoveries, at ASSIGNEES' 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 ASSIGNEES 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 NOVARTIS AG if this sale, assignment and transfer had not been made.

NOVARTIS AG hereby authorizes ASSIGNEES 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.

NOVARTIS AG hereby covenants and agrees that it will, at any time, (i) upon the request, but at the expense, of ASSIGNEES, 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 ASSIGNEES, 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 ASSIGNEES 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 ASSIGNEES.

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 Switzerland.

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

Executed this 16th day of January, 2017.

NOVARTIS AG

Authorized signatory

BY

A. Verwey

L.S.

Michael Verwey

BY

Holger Petersen

L.S.

HOLGER PETERSEN
Authorized signatory

Witness

Print Name:

Michael Verwey

Witness

Print Name:

Holger Petersen

Executed this 12th day of January, 2017.

NOVARTIS AG

BY [Signature] L.S.
Ian James Hiscock
Authorized Signatory

BY [Signature] L.S.
Dr. Jernej Kristl
authorised signatory

Witness
Print Name: [Signature]

Witness
Print Name: [Signature]

[Signature]
[Signature]

THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

2/3/2017

Date

Jennifer Langeberger

NAME:

(Seal)

Jennifer Langeberger

TITLE:

Director, Intellectual Property

STATE/Commonwealth of

Pennsylvania

COUNTY OF

Philadelphia ss.

Before me, a notary public in and for the State and County aforesaid, on this 3rd day of February, 2017 personally appeared Jennifer Langeberger, 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.

Stephanie M. Bongiovanni

Notary Public

My Commission Expires:

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL

STEPHANIE M. BONGIOVANNI, Notary Public
City of Philadelphia, Phila. County
My Commission Expires May 5, 2020