PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	07/04/2013

CONVEYING PARTY DATA

Name	Execution Date
NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD.	06/16/2014

RECEIVING PARTY DATA

Name:	NOVARTIS AG
Street Address:	LICHTSTRASSE 35
City:	BASEL
State/Country:	SWITZERLAND
Postal Code:	4056

PROPERTY NUMBERS Total: 2

Property Type	Number
PCT Number:	EP2014064248
Application Number:	16124679

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 6109844751
Email: pat@pathalloran.com
Correspondent Name: PATRICK J HALLORAN
Address Line 1: 3141 MUIRFIELD ROAD
Address Line 4: CENTER VALLEY, PENNSYLVANIA 18034

ATTORNEY DOCKET NUMBER:	7-NOVA0006USCON1-NIP-NAG
NAME OF SUBMITTER:	PATRICK J HALLORAN
SIGNATURE:	/Patrick J Halloran/
DATE SIGNED:	05/14/2020

Total Attachments: 4

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Patent Case PAT055203

ASSIGNMENT

This Assignment Agreement is entered into by and between NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD., a company incorporated in Bermuda whose address is Canons Court, 22 Victoria Street, Hamilton, Bermuda and NOVARTIS AG, a company incorporated in Switzerland whose address is Lichtstrasse 35, 4056 Basel, Switzerland.

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD. does hereby sell, assign and transfer to NOVARTIS AG and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), 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 European Office on July 4, 2013 and accorded Application Number EP13175141.4 and/or filed as a PCT International Application on _____, 20___ and accorded International Patent Application Number _____; 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 ASSIGNEE or their designees, or on behalf or in the name(s) of the inventor(s) of said inventions and discoveries, 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 NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD. if this sale, assignment and transfer had not been made.

NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD. hereby authorizes 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.

NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD. hereby covenants and agrees that it 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 Switzerland.

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

Executed this 16th day of June 2014.

NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD.

BY _____ L.S.
Print Name: Mehdi Ganjeizadeh, Authorized Signatory

BY _____ L.S.
Print Name: Gregory Houghton - Authorized Signatory

_____
Witness
Print Name: Annette Cromer

_____
Witness
Print Name: Angel Mates

Executed this 16th day of June, 2014.

NOVARTIS AG

BY _____ L.S.
Print Name: Sherri Rose, authorized signatory

BY _____ L.S.
Print Name: Maureen McGee, authorized signatory

_____
Witness
Print Name: Merit Cromer

_____
Witness
Print Name: Angel Matos