

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MELODY MORRIS | 02/08/2018 |
| RECEIVING PARTY DATA | |
| Name: | NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC. |
| Street Address: | 250 MASSACHUSETTS AVENUE |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02139 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16592293 |
| CORRESPONDENCE DATA | |
| Fax Number: | (617)426-6567 |
| <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: | 617-728-7100 |
| Email: | BOSPatents@dechert.com |
| Correspondent Name: | DECHERT LLP |
| Address Line 1: | ONE INTERNATIONAL PLACE, 40TH FLOOR |
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| ATTORNEY DOCKET NUMBER: | 397001-001USD1 (169656) |
| NAME OF SUBMITTER: | ANDREA L.C. REID |
| SIGNATURE: | /Andrea L.C. Reid/ |
| DATE SIGNED: | 11/07/2019 |
| Total Attachments: 3 | |
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**COMBINED DECLARATION (37 CFR § 1.63) AND ASSIGNMENT (DUAL PURPOSE)
FOR UTILITY OR DESIGN PATENT APPLICATION USING AN APPLICATION DATA SHEET**

DECLARATION:

The within-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT:

WHEREAS, we, the undersigned,

Joan MANNICK, resident of c/o Novartis Institutes for BioMedical Research, Inc., 250 Massachusetts Avenue, Cambridge, Massachusetts, USA; and
Melody MORRIS, resident of c/o Novartis Institutes for BioMedical Research, Inc., 250 Massachusetts Avenue, Cambridge, Massachusetts, USA;

of the invention described and claimed in "METHODS OF ENHANCING IMMUNE RESPONSE" and hereby execute an application for a patent of the United States, having Application No. 15/821,229, filing date of November 22, 2017, and

is also aware of the following priority applications:

U.S. Application No. 62/425,766, filing date of **November 23, 2016**;

U.S. Application No. 62/476,160, filing date of **March 24, 2017**; and

U.S. Application No. 62/576,511, filing date of **October 24, 2017**;

WHEREAS, **NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.** (hereinafter termed "Assignee"), having a place of business at **250 Massachusetts Avenue, Cambridge, Massachusetts 02139, USA**, desires to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by us (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration, receipt and sufficiency of which is acknowledged by us to have been received in full from said Assignee:

1. We do hereby sell, assign, transfer and convey unto said Assignee, and/or confirm prior assignment, transfer, or conveyance unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. We hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by us shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by us in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon us, our respective heirs, legal representatives and assigns.

4. We hereby warrant and represent that we have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, we have executed and delivered this instrument to said Assignee.

**NOVARTIS INSTITUTES FOR BIOMEDICAL
RESEARCH, INC. ("Assignee")**

By: Kathleen M. Drury

Name: KATHLEEN M. DRURY

Title: AUTHORIZED SIGNATORY

Date: 8 February 2018

Witness: Sally Watson
Sally Watson
700 Main Street
Cambridge, MA 02139

Witness: Tara M. Melanson

Tara M. Melanson
700 Main Street
Cambridge, MA 02139

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|----------------------------------|--|
| By: _____ Joan MANNICK | By: _____ Melody MORRIS |
| Date: _____ | Date: <u>2/8/18</u> |
| WITNESSES: | WITNESSES: |
| Signature: _____ | Signature: <u>Tara M. Melanson</u> Tara M. Melanson |
| Signature: _____ | Signature: <u>Safiya Watson</u> Safiya Watson |

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Cambridge, MA 02139

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