

ASSIGNMENT

This Assignment Agreement is entered into by and between

Rohan Eric John BECKWITH	citizen of United Kingdom	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 USA
Simone BONAZZI	citizen of Switzerland	Novartis Institutes for Biomedical Research Inc., 250 Massachusetts Avenue, Cambridge, Massachusetts 02139, United States of America
Artiom CERNIJENKO	citizen of Lithuania	Novartis Institutes for Biomedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139
Ritesh Bhanudasji TICHKULE	citizen of India	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 US
Michael Scott VISSER	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 US

(hereinafter "Inventor(s)"), and **NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC., 250 MASSACHUSETTS AVENUE, CAMBRIDGE, MA 02139 US**, a company organized under the laws of THE STATE OF DELAWARE.

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I/We the Inventor(s) do hereby confirm and agree that, by operation of law and/or contract, and/or by the fulfillment of any and all legal requirements regarding the transfer of employee inventions in my/our country of employment, NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC. is the true and lawful owner of all right, title and interest in all inventions, discoveries, patents/utility models, applications, and rights described in paragraphs (1) through (8) below.

If, however, under the laws of any country, I/We the Inventor(s) nevertheless have any ownership right, title or interest in any of the items described herein (which I/We do not believe to be the case and make no claim in or to), for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/We the Inventor(s) do hereby sell, assign and

transfer to NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC. and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), all of our right, title and interest for all countries of the world in and to

(1) all of our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

3-(1-OXOISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES AND USES THEREOF

and filed in the United States Patent and Trademark Office on 23 Aug, 2017 and accorded Application Number 62/549225 and/or filed as a PCT International Application on _____ and accorded International Patent Application Number PCT/_____;

(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 in our/my name, 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 me/us if this sale, assignment and transfer had not been made.

I/We the Inventor(s) hereby authorize 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.

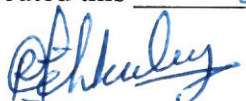
I/We the Inventor(s) hereby covenant and agree that I/We will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, 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 law of the State of Delaware.

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

Executed this 8 day of Aug, 2018.

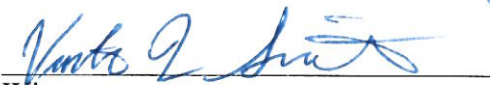


RITESH BHANUDASJI TICHKULE



Witness

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139



Witness

VICTORIA SMITH
700 MAIN STREET
CAMBRIDGE, MA 02139

Executed this 25 day of July, 2018.

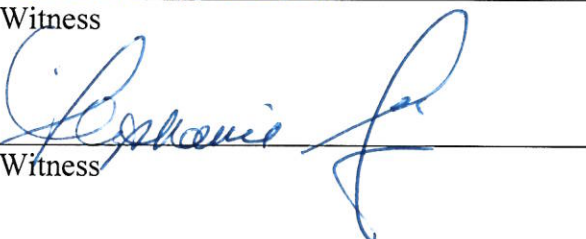


SIMONE BONAZZI



Witness

Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US



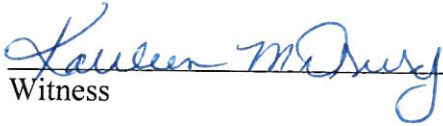
Witness

Stephanie Geis
700 Main Street
Cambridge, MA 02139

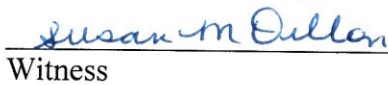
Executed this 13 day of AUGUST, 2018.



ROHAN ERIC JOHN BECKWITH

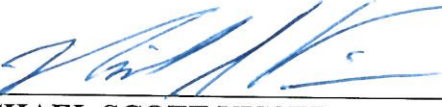

Witness

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139


Witness

Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US

Executed this 8 day of August, 2018.



MICHAEL SCOTT VISSER


Witness

Kathleen M. Drury
700 Main Street
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VICTORIA SMITH
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CAMBRIDGE, MA 02139

Executed this 25 day of July, 2018.



ARTIOM CERNIJENKO

Susan M Dillon

Witness

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Cambridge, MA 02139 US

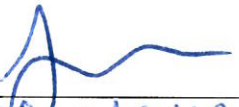


Witness

Stephanie Geis
700 Main Street
Cambridge, MA 02139

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

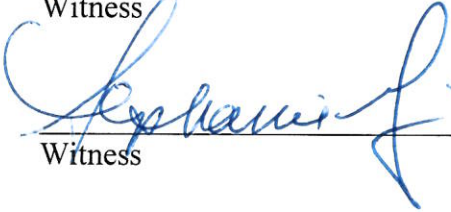
Executed this 20th day of August, 2018.

BY 

NAME: Satya Wadish
Authorized Signatory

Kathleen M Drury

Witness



Witness

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139

Stephanie Geis
700 Main Street
Cambridge, MA 02139

ASSIGNMENT

This Assignment Agreement is entered into by and between **NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.**, 250 MASSACHUSETTS AVENUE, CAMBRIDGE, MA 02139 US, a company organized under the laws of THE STATE OF DELAWARE, 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 INSTITUTES for BioMedical Research, Inc. does hereby sell, assign and transfer to and 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

3-(1-OXOISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES AND USES THEREOF

and filed in the United States Patent and Trademark Office on 23 Aug, 2017 and accorded Application Number 62/549225 and/or filed as a PCT International Application on _____ and accorded International Patent Application Number PCT/_____;

(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);

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(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;

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NOVARTIS INSTITUTES for BioMedical Research, Inc. 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 INSTITUTES for BioMedical Research, Inc. 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.

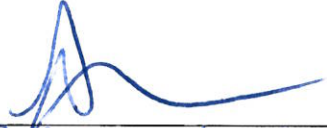
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This Assignment shall be governed by the laws of Switzerland.

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

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

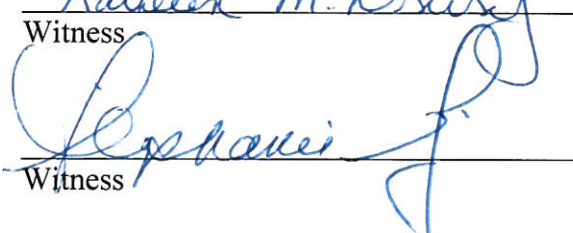
Executed this 20th day of August, 2018.

BY 

NAME: Safiya Watson
Authorized Signatory


Witness

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139


Witness

Stephanie Geis
700 Main Street
Cambridge, MA 02139

NOVARTIS AG

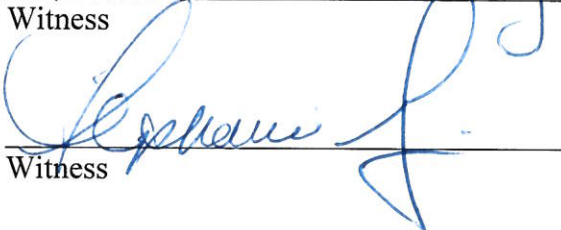
Executed this 21st day of AUGUST, 2018.

BY 
NAME: Adam Paulin-Kersten
Authorized Signatory

BY 
NAME: Laura Maddern
Authorized Signatory


Witness

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139


Witness

Stephanie Geis
700 Main Street
Cambridge, MA 02139

ASSIGNMENT

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Rohan Eric John BECKWITH	citizen of United Kingdom	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 USA
Simone BONAZZI	citizen of Switzerland	Novartis Institutes for Biomedical Research Inc., 250 Massachusetts Avenue, Cambridge, Massachusetts 02139, United States of America
Artiom CERNIJENKO	citizen of Lithuania	Novartis Institutes for Biomedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139
Aleem FAZAL	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 US
Michael Scott VISSER	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 US
Ritesh Bhanudasji TICHKULE	citizen of India	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139

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3-(1-OXOISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES AND USES THEREOF

and filed in the United States Patent and Trademark Office on _____ and accorded Application Number _____ and/or filed as a PCT International Application on 23 August 2018 and accorded International Patent Application Number PCT/IB2018/056400;

(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);

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(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);

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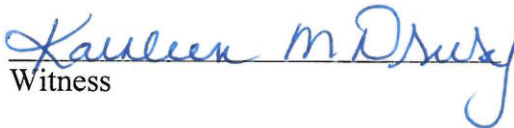
This Assignment shall be governed by the law of the State of Delaware.

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

Executed this 7 day of September, 2018.


ALEEM FAZAL

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139


Witness

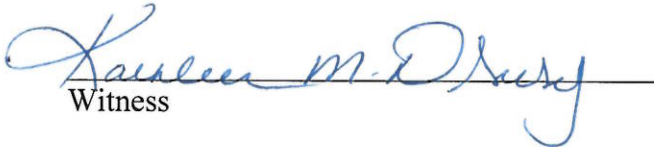

Witness

Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US

Executed this 7 day of September, 2018.


SIMONE BONAZZI

Kathleen M. Drury
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ROHAN ERIC JOHN BECKWITH

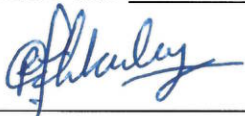
Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US


Witness


Witness

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139

Executed this 10 day of sept, 20 18.



RITESH BHANUDASJI TICHKULE

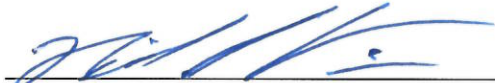
Kathleen M. Drury
700 Main Street
Cambridge, MA 02139

Kathleen M. Drury
Witness

Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US

Susan M. Dillon
Witness

Executed this 7 day of SEPT, 20 18.



MICHAEL SCOTT VISSER

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139

Kathleen M. Drury
Witness

Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US

Susan M. Dillon
Witness

Executed this 7th day of September, 20 18.



ARTIOM CERNIJENKO

Kathleen M. Drury
700 Main Street
Cambridge, MA 02139

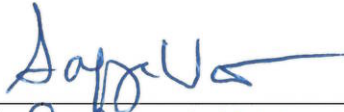
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Cambridge, MA 02139 US

Susan M. Dillon
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NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Executed this 10th day of September, 2018.

BY 
NAME: Satiya Watson
Authorized Signatory


Witness

Kathleen M. Drury
700 Main Street
Cambridge MA 02139


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Susan M. Dillon
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Cambridge, MA 02139 US

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and filed in the United States Patent and Trademark Office on _____ and accorded Application Number _____ and/or filed as a PCT International Application on 23 August 2018 and accorded International Patent Application Number PCT/IB2018/056400;

(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 INSTITUTES for BioMedical Research, Inc. if this sale, assignment and transfer had not been made.

NOVARTIS INSTITUTES for BioMedical Research, Inc. 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 INSTITUTES for BioMedical Research, Inc. 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.

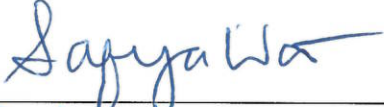
Should any provision of this Assignment be deemed invalid or unenforceable by reason of any law, statute, regulation or judgment, existing now or in the future in any jurisdiction, such provision shall be modified in such jurisdiction so as to nearly approximate the intent of the Parties. If this cannot 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.

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Executed this 10th day of September, 2018.

BY 
NAME: Safiya Watson
Authorized Signatory

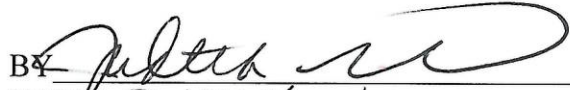

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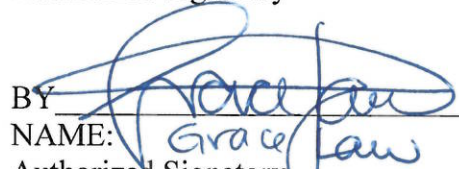
Kathleen M. Drury
700 Main Street
Cambridge, MA 02139

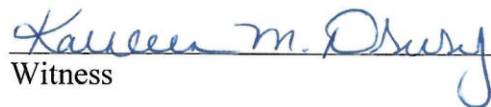

Witness
Susan M. Dillon
700 Main Street
Cambridge, MA 02139 US

NOVARTIS AG

Executed this 10th day of September, 2018.

BY 
NAME: Judith Kuntz
Authorized Signatory

BY 
NAME: Grace Jau
Authorized Signatory


Witness

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