PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6870175

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANUTA LUBICKA	03/11/2021
JAMES NEEF	03/15/2021
TEJASKUMAR PANKAJBHAI PATHAK	03/17/2021
AMIR MASOUD SADAGHIANI	05/13/2021
XILIN ZHOU	03/15/2021

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:	17346006

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.

Email: kristina.fay@novartis.com, pip_inbox.phchbs@novartis.com

Correspondent Name: KRISTINA FAY

Address Line 1: NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Address Line 2: 700 MAIN STREET

Address Line 4: CAMBRIDGE, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER:	PAT058783-US-NP
NAME OF SUBMITTER:	KRISTINA FAY
SIGNATURE:	/Kristina Fay/
DATE SIGNED:	08/18/2021

Total Attachments: 35

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PATENT REEL: 057213 FRAME: 0250

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> PATENT REEL: 057213 FRAME: 0251

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Danuta LUBICKA	citizen of United States of America	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
James NEEF	citizen of United Kingdom	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
Tejaskumar Pankajbhai PATHAK	citizen of India	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
Amir Masoud SADAGHIANI	citizen of United States of America	c/o Cygnal Therapeutics 325 Vassar Street Suite 2B Cambridge, MA 02139 United States
Xilin ZHOU	citizen of China	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America

(hereinafter "Inventor(s)"),

and NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC., 250 Massachusetts Ave, Cambridge, Massachusetts 02139, USA, a company organized under the laws 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

PATENT REEL: 057213 FRAME: 0252 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 my/our right, title and interest for all countries of the world in and to
- (1) all of my/our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

METHYL (R)-2-(FLUOROMETHYL)-5-OXO-4-PHENYL-4,5,6,7-TETRAHYDRO-1H-CYCLOPENTA[B]PYRIDINE-3-CARBOXYLATE AND METHYL (R)-2-(FLUOROMETHYL)-5-OXO-4-PHENYL-1,4,5,7-TETRAHYDROFURO[3,4-B]PYRIDINE-3-CARBOXYLATE AS CAV1.2 ACTIVATORS

and filed as a PCT Application on June 15, 2020, and accorded Application Number PCT/CN2020/096177;

- (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 laws of Delaware.

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

Executed this	_ day of	March	, 20 <u>21</u> .
Executed this	The	ilt	
Danuta LUBICKA	\circ		
Executed this	_ day of		_,20
James NEEF			
Executed this	day of		20
EXCLUIOU IIIIS	uay oi		»
Tejaskumar Pankaj	bhai PA	THAK	

Executed this	day or	, 20
Amir Masoud SAD	AGHIANI	
Executed this	day of	, 20
Xilin ZHOU		

Executed this $\frac{287}{\text{day of }}$ day of $\frac{\text{May}}{\text{ay}}$, $20\frac{2}{\text{day}}$.

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Printed Name: Safiya

Authorized Signatory

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Danuta LUBICKA	citizen of United States of America	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
James NEEF	citizen of United Kingdom	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
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Amir Masoud SADAGHIANI	citizen of United States of America	c/o Cygnal Therapeutics 325 Vassar Street Suite 2B Cambridge, MA 02139 United States
Xilin ZHOU	citizen of China	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America

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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

1

PATENT

REEL: 057213 FRAME: 0259

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 my/our right, title and interest for all countries of the world in and to

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

METHYL (R)-2-(FLUOROMETHYL)-5-OXO-4-PHENYL-4,5,6,7-TETRAHYDRO-1H-CYCLOPENTA[B]PYRIDINE-3-CARBOXYLATE AND METHYL (R)-2-(FLUOROMETHYL)-5-OXO-4-PHENYL-1,4,5,7-TETRAHYDROFURO[3,4-B]PYRIDINE-3-CARBOXYLATE AS CAV1.2 ACTIVATORS

and filed as a PCT Application on June 15, 2020, and accorded Application Number PCT/CN2020/096177;

- (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

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- (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.

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Executed this	day of	, 20
Danuta LUBICKA		And the state of t
Executed this \\S		
James NEEF		
Executed this	day of	, 20
Tejaskumar Pankajb	hai PATHAK	***************************************

Executed this	day of	, 20
Amir Masoud SAI		
Executed this	day of	, 20
Xilin ZHOU		

Executed this 25^{M} day of 25^{M} day of 25^{M} .

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Printed Name:

Authorized Signatory

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Danuta LUBICKA	citizen of United States of America	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
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PATENT REEL: 057213 FRAME: 0266 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 my/our right, title and interest for all countries of the world in and to
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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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Executed this	day of		, 20
Danuta LUBICKA		***************************************	
Executed this	day of		. 20 .
James NEEF			**********
Executed this 17	day of	MARCH	, 20 21.
T. P-Poll			
Tejaskumar Pankajb	hai PAT	ГНАК	

Executed this	day of	, 20
Amir Masoud SAI	DAGHIANI	
Executed this	day of	, 20
Xilin ZHOU		***************************************

Executed this 28% day of 9%, 90%.

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Y DOWNANTSON
Printed Name: Safiya Watson
Authorized Signatory

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Danuta LUBICKA	citizen of United States of America	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
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Amir Masoud SADAGHIANI	citizen of United States of America	c/o Cygnal Therapeutics 325 Vassar Street Suite 2B Cambridge, MA 02139 United States
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(hereinafter "Inventor(s)"),

and NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC., 250 Massachusetts Ave, Cambridge, Massachusetts 02139, USA, a company organized under the laws 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

PATENT REEL: 057213 FRAME: 0273 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 my/our right, title and interest for all countries of the world in and to
- (1) all of my/our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

METHYL (R)-2-(FLUOROMETHYL)-5-OXO-4-PHENYL-4,5,6,7-TETRAHYDRO-1H-CYCLOPENTA[B]PYRIDINE-3-CARBOXYLATE AND METHYL (R)-2-(FLUOROMETHYL)-5-OXO-4-PHENYL-1,4,5,7-TETRAHYDROFURO[3,4-B]PYRIDINE-3-CARBOXYLATE AS CAV1.2 ACTIVATORS

and filed as a PCT Application on June 15, 2020, and accorded Application Number PCT/CN2020/096177;

- (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 laws of Delaware.

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

Executed this	day of		, 20	
Danuta LUBICKA				
Executed this	day of		, 20	
James NEEF				
Executed this	day of		, 20	
Tejaskumar Pankajl	hai PA	ГНАК		

Executed this 13 th	day of	Maj	, 20 <u>0\</u>
Amir Masoud SADA	GHIAN	I	
Executed this	day of		, 20
Xilin ZHOU		******************************	***************************************

Executed this 28^{+10} day of May, 2021.

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

Printed Name Squir

Printed Name /) G + G V G T

ASSIGNMENT

This Assignment Agreement is entered into by and between:

Danuta LUBICKA	citizen of United States of America	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
James NEEF	citizen of United Kingdom	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
Tejaskumar Pankajbhai PATHAK	citizen of India	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America
Amir Masoud SADAGHIANI	citizen of United States of America	c/o Cygnal Therapeutics 325 Vassar Street Suite 2B Cambridge, MA 02139 United States
Xilin ZHOU	citizen of China	c/o Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 United States of America

(hereinafter "Inventor(s)"),

and NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC., 250 Massachusetts Ave, Cambridge, Massachusetts 02139, USA, a company organized under the laws of Delaware.

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

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Executed this	day of		, 20
Danuta LUBICKA			·····
Executed this	day of		, 20
James NEEF			********
T . 1.4.			
Executed this	day of	······································	, 20
Tejaskumar Pankajb	hai PATE	IAK	

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PATENT REEL: 057213 FRAME: 0284

Executed this	_ day of	, , 20	
Amir Masoud SADA	AGHIANI		
Executed this 15th	day of	larch, 2021	
Mary	V	-	

NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.

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PATENT REEL: 057213 FRAME: 0286

RECORDED: 08/18/2021