

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEFFREY MCKENNA	10/06/2017
GEORGE SCOTT TRIA	10/03/2017
STEPHEN CANHAM	10/02/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.
<b>Street Address:</b>	250 MASSACHUSETTS AVENUE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16315612
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>Email:</b>	kristen@acuitylg.com
<b>Correspondent Name:</b>	MICHAEL A. WHITTAKER
<b>Address Line 1:</b>	12707 HIGH BLUFF DRIVE, SUITE 200
<b>Address Line 2:</b>	ACUITY LAW GROUP, PC
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92130
<b>ATTORNEY DOCKET NUMBER:</b>	ADR-1008-US
<b>NAME OF SUBMITTER:</b>	KRISTEN LEMME
<b>SIGNATURE:</b>	/Kristen Lemme/
<b>DATE SIGNED:</b>	01/04/2019
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 047908 FRAME: 0362**

**ASSIGNMENT**

**WHEREAS, we:**

**Jeffrey McKenna**

Novartis Institutes for BioMedical Research, Inc.  
250 Massachusetts Avenue  
Cambridge, MA 02139  
Citizenship: United Kingdom

**George Scott Tria**

Novartis Institutes for BioMedical Research, Inc.  
250 Massachusetts Avenue  
Cambridge, MA 02139  
Citizenship: US

**Stephen Canham**

Novartis Institutes for BioMedical Research, Inc.  
250 Massachusetts Avenue  
Cambridge, MA 02139  
Citizenship: US

have invented new and useful improvements in **LOCKED NUCLEIC ACID CYCLIC  
DINUCLEOTIDE COMPOUNDS AND USES THEREOF**, for which an International Patent  
Application (PCT) was filed on **July 1, 2017**, and assigned Application Number  
**PCT/US2017/040535**; and

**WHEREAS, NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.**, a  
corporation, whose post-office address is 250 Massachusetts Avenue, Cambridge, MA, 02139,  
USA, is desirous of acquiring our entire interest in the same;

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which is  
hereby acknowledged, we, hereby do sell, assign and transfer unto **NOVARTIS INSTITUTES  
FOR BIOMEDICAL RESEARCH, INC.** our entire right, title and interest in and to said  
invention and application throughout the world, including, without limitation, any Letters Patent

which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application; the same for our legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;

**AND**, we hereby bind ourselves, our heirs, legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid **NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.**, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world.

Four (4) signature pages follow.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6th day of October, 2017.

  
Jeffrey McKenna

STATE OF Massachusetts }

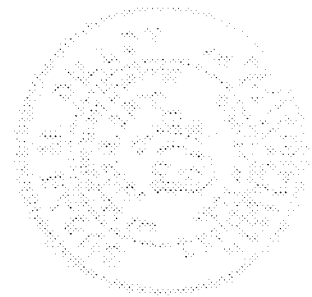
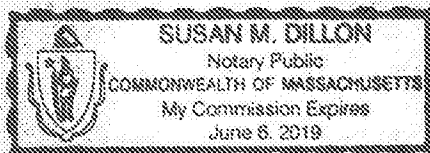
COUNTY OF Middlesex }

On October 6, 2017 before me, Susan M. Dillon  
(insert name and title of the officer)


Notary Public, personally appeared Jeffrey McKenna,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument  
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Susan M. Dillon (Seal)



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 3 day of  
October, 2017.

  
George Scott Tria

STATE OF MASSACHUSETTS }

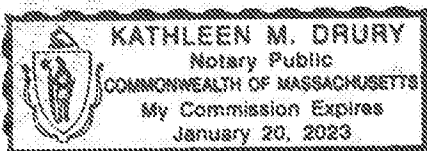
COUNTY OF MIDDLESEX }

On October 3, 2017 before me, KATHLEEN M. DRURY  
(insert name and title of the officer)

Notary Public, personally appeared GEORGE SCOTT TRIA,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument  
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Kathleen M. Drury (Seal)



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2 day of  
October, 2017.

Stephen Canham  
Stephen Canham

STATE OF Massachusetts }

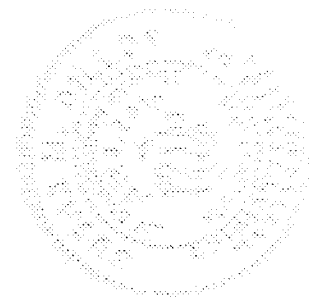
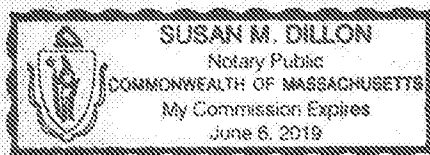
COUNTY OF Middlesex }

On October 2, 2017 before me, Susan M. Dillon  
(insert name and title of the officer)

Notary Public, personally appeared Stephen Canham,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument  
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

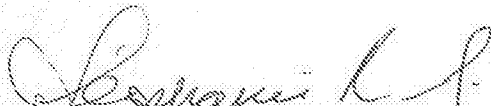
WITNESS my hand and official seal.

Signature Susan M Dillon (Seal)

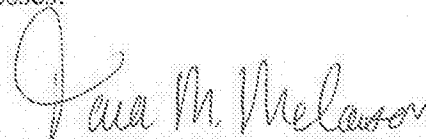


Accepted for and on behalf of **NOVARTIS INSTITUTES FOR BIOMEDICAL  
RESEARCH, INC.**

Date: November 17, 2017


By:   
Name: Stephanie L. Goff  
Title: Authorized Signatory

Witnesses:



Name:

Address:

 Tara M. Melanson  
700 Main Street  
Cambridge, MA 02139



Name:

Address:

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