

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3687792

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIPING FU	12/01/2015
XIANMING JIN	12/01/2015
SUBRAMANIAN KARUR	11/30/2015
GUILLAUME LAPOINTE	12/02/2015
ZACHARY KEVIN SWEENEY	12/01/2015
<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>	14969930
<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>	
<b>Phone:</b>	(510) 879-9719
<b>Email:</b>	lisa.nash@novartis.com
<b>Correspondent Name:</b>	NOVARTIS INSTITUTES FOR BIOMEDICAL RES
<b>Address Line 1:</b>	5300 CHIRON WAY
<b>Address Line 4:</b>	EMERYVILLE, CALIFORNIA 94608
<b>ATTORNEY DOCKET NUMBER:</b>	PAT056598-US-NP
<b>NAME OF SUBMITTER:</b>	LISA NASH
<b>SIGNATURE:</b>	/lisa nash/
<b>DATE SIGNED:</b>	01/08/2016
<b>Total Attachments: 12</b>	
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**ASSIGNMENT**

This Assignment Agreement is entered into by and between

Jiping FU	citizen of China	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA
Xianming JIN	citizen of United States of America	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA
Subramanian KARUR	citizen of India	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA
Guillaume LAPOINTE	citizen of Canada	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA
Zachary Kevin SWEENEY	citizen of United States of America	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA

(hereinafter "Inventor(s)"), and **NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH INC.**, 250 Massachusetts Ave, Cambridge, MA 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 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

ISOXAZOLE HYDROXAMIC ACID COMPOUNDS AS LpxC INHIBITORS

[Patent Application Reference No. PAT056598-US-PSP]

and filed in the \_\_\_\_\_ Office on \_\_\_\_\_ and accorded Application Number \_\_\_\_\_ and/or filed as a PCT International Application on \_\_\_\_\_ and accorded International Patent Application Number \_\_\_\_\_; and/or filed in the United States Patent and Trademark Office on December 16, 2014 and accorded Application Number 62/092,402;

(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 the state of Delaware.

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

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2015

BY \_\_\_\_\_  
Jiping FU

Witnessed by:

_____	_____
5300 Chiron Way Emeryville, CA 94608	5300 Chiron Way Emeryville, CA 94608

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2015

BY \_\_\_\_\_  
Xianming JIN

Witnessed by:

_____	_____
5300 Chiron Way Emeryville, CA 94608	5300 Chiron Way Emeryville, CA 94608

Executed this 30<sup>th</sup> day of November, 2015

BY \_\_\_\_\_  
Subramanian KARUR

Witnessed by:

\_\_\_\_\_  
5300 Chiron Way  
Emeryville, CA 94608

\_\_\_\_\_  
5300 Chiron Way  
Emeryville, CA 94608

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2015

BY \_\_\_\_\_  
Guillaume LAPOINTE

Witnessed by:


\_\_\_\_\_  
5300 Chiron Way  
Emeryville, CA 94608

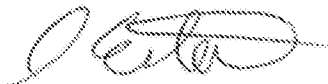
\_\_\_\_\_  
5300 Chiron Way  
Emeryville, CA 94608

Executed this 1<sup>st</sup> day of December, 2015

BY   
Zachary Kevin SWEENEY

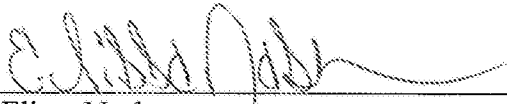
Witnessed by:

  
Name: Howard Tanne  
Address: 201 GATEWAY BLVD  
SOUTH SAN FRANCISCO  
94080

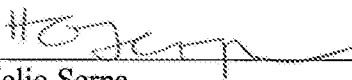
  
Name: Anthony Estrada  
Address: 201 Gateway Blvd.  
South San Francisco, CA 94080

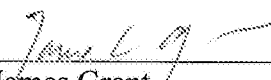
**NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH INC.**

Executed this 3rd day of December, 2015

BY   
Elissa Nash  
Authorized Signatory

Witnessed by:

  
Helio Serpa  
5300 Chiron Way  
Emeryville, CA 94608

  
James Grant  
5300 Chiron Way  
Emeryville, CA 94608



**ASSIGNMENT**

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Jiping FU	citizen of China	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA
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Guillaume LAPOINTE	citizen of Canada	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA
Zachary Kevin SWEENEY	citizen of United States of America	Novartis Institutes for BioMedical Research Inc. 5300 Chiron Way Emeryville, CA 94608 USA

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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

ISOXAZOLE HYDROXAMIC ACID COMPOUNDS AS LpxC INHIBITORS

[Patent Application Reference No. PAT056598-US-PSP]

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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 laws of the state of Delaware.

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

Executed this 1st day of December, 2015

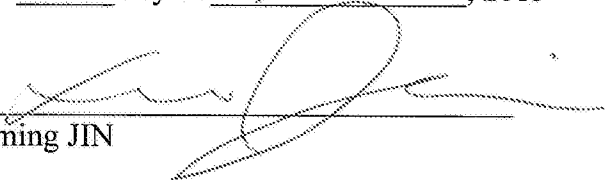
BY   
Jiping FU

Witnessed by:

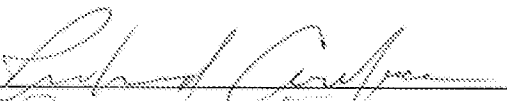
  
HELIO G. SERPA  
5300 Chiron Way  
Emeryville, CA 94608

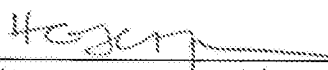
  
Richard C. Serpa  
5300 Chiron Way  
Emeryville, CA 94608

Executed this 1st day of December, 2015

BY   
Xianming JIN

Witnessed by:

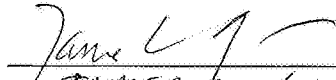
  
Richard C. Serpa  
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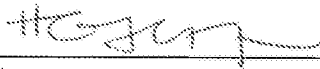
  
HELIO G. SERPA  
5300 Chiron Way  
Emeryville, CA 94608

Executed this 30<sup>th</sup> day of November, 2015

BY   
Subramanian KARUR

Witnessed by:

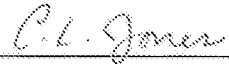
  
JAMES L. GRANT  
5300 Chiron Way  
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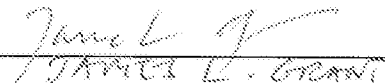
  
HELIO G. SERPA  
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Executed this 2<sup>nd</sup> day of December, 2015

BY   
Guillaume LAPOINTE

Witnessed by:

  
Catherine Jones  
5300 Chiron Way  
Emeryville, CA 94608

  
JAMES L. GRANT  
5300 Chiron Way  
Emeryville, CA 94608

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2015

BY \_\_\_\_\_  
Zachary Kevin SWEENEY

Witnessed by:

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5300 Chiron Way  
Emeryville, CA 94608

\_\_\_\_\_  
5300 Chiron Way  
Emeryville, CA 94608

**NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH INC.**

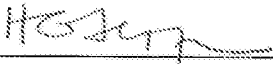
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BY

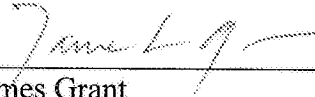


Elissa Nash  
Authorized Signatory

Witnessed by:



Helio Serpa  
5300 Chiron Way  
Emeryville, CA 94608



James Grant  
5300 Chiron Way  
Emeryville, CA 94608