

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHRISTINE CHEN	08/10/2011
DONOVAN N CHIN	08/10/2011
LUCIAN V DIPIETRO	08/10/2011
JIANMEI FAN	08/31/2011
MARK G PALERMO	08/10/2011
MICHAEL D SHULTZ	08/15/2011
BAKARY B TOURE	08/10/2011
RECEIVING PARTY DATA	
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City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	61507321
Application Number:	14154173
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NAME OF SUBMITTER:	ROBERT SWEENEY
SIGNATURE:	/Robert Sweeney/
DATE SIGNED:	05/09/2014

Total Attachments: 7

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ASSIGNMENT

This Assignment Agreement is entered into by and between Christine Chen, Donovan N. Chin, Lucian V. DiPietro, Jianmei Fan, Mark G. Palermo, Michael D. Shultz, and Bakary B. Toure, c/o Novartis Institutes for Biomedical Research Inc., 250 Massachusetts Ave, Cambridge, MA 02139, USA, a citizen of United States, United States, United States, China, United States, United States and Canada (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

"NOVEL 4-PIPERIDINYL COMPOUNDS FOR USE AS TANKYRASE INHIBITORS"
[Patent Case 54728]

and filed in the United States Patent and Trademark Office on July 13, 2011 and accorded Application Number 61/507,321 and/or filed as a PCT International Application on _____, 20 and accorded International Patent Application Number PCT/_____; and/or filed in the United States Patent and Trademark Office on _____, 20 and accorded Application Number _____;

(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 10th day of August, 2011.

[Signature] L.S.
Chen, Christine

On this 10th day of Aug 2011 before, me the undersigned notary public, personally appeared

Christine Chen
Proved to me through satisfactory evidence of identification, which was driver's license to be the person whose name is signed on the preceding or attached document and acknowledged to me that he/she signed it voluntarily for its stated purpose.

[Signature] Notary Public
JESSICA N. YAO
Notary Public
My commission expires Commonwealth of Massachusetts
My Commission Expires
April 20, 2018

Executed this Aug day of 10, 2011.

Donovan Chin L.S.
Chin, Donovan N.

On this 10th day of Aug 2011 before, me the undersigned notary public, personally appeared

Donovan Chin
Proved to me through satisfactory evidence of identification, which was MA drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

Jessica N. Yao, Notary Public
JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018
My commission expires

Executed this 10th day of Aug, 2011.


Lucian V. DiPietro L.S.
DiPietro, Lucian V.

On this 10th day of Aug 2011 before, me the undersigned notary public, personally appeared

Lucian DiPietro
Proved to me through satisfactory evidence of identification, which was drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

Jessica N. Yao, Notary Public
JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018
My commission expires

Executed this 31 day of Aug, 2011.


Fan, Jianmei

L.S.

On this 31st day of Aug 2011 before, me the undersigned notary public, personally appeared

Jianmei Fan
Proved to me through satisfactory evidence of identification, which was drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

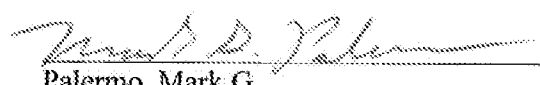
 Notary Public

My commission expires



JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018


Executed this 10th day of Aug, 2011.


Palermo, Mark G.

L.S.

On this 10th day of Aug 2011 before, me the undersigned notary public, personally appeared

Mark Palermo
Proved to me through satisfactory evidence of identification, which was drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

 Notary Public

My commission expires



JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018

Executed this 15 day of Aug, 2011.

[Signature]
Shultz, Michael D. L.S.

On this 10th day of Aug 2011 before, me the undersigned notary public, personally appeared

Michael Shultz
Proved to me through satisfactory evidence of identification, which was drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

[Signature] Notary Public

My commission expires



JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018

Executed this 10 day of August, 2011.

[Signature]
Toure, Bakary B. L.S.

On this 10th day of Aug 2011 before, me the undersigned notary public, personally appeared

Bakary Toure
Proved to me through satisfactory evidence of identification, which was drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

[Signature] Notary Public

My commission expires



JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018

Executed this 31 day of August, 2011.

Novartis Institutes for Biomedical Research Inc.

BY Nicholas J. Landry L.S.
NICHOLAS J. LANDRY

On this 31st day of Aug 2011 before, me the undersigned notary public, personally appeared

Nicholas Landry
Proved to me through satisfactory evidence of identification, which was drivers license
to be the person whose name is signed on the preceding or attached document and acknowledged
to me that he/she signed it voluntarily for its stated purpose.

Jessica N. Yao Notary Public

My commission expires _____ JESSICA N. YAO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 20, 2018