

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Giordano Caponigro	01/04/2019
Zhu Alexander Cao	01/04/2019
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:	16580505
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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>	
Phone:	(617) 542-5070
Email:	krahler@fr.com, apsi@fr.com
Correspondent Name:	JOHN T. KENDALL
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	41357-0047002
NAME OF SUBMITTER:	NIKKI KRAHLER
SIGNATURE:	/Nikki Krahler/
DATE SIGNED:	11/11/2019
Total Attachments: 4	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, GIORDANO CAPONIGRO and ZHU ALEXANDER CAO, each individually assign to Novartis Institutes for BioMedical Research, Inc., 250 Massachusetts Avenue, Cambridge, Massachusetts 02139, United States of America, a company organized under the laws of Delaware, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "PHARMACEUTICAL COMBINATIONS," and was filed in the United States Patent and Trademark Office on June 3, 2016, as application 62/345,389 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.


Giordano Caponigro

Date: Jan, 4 2019

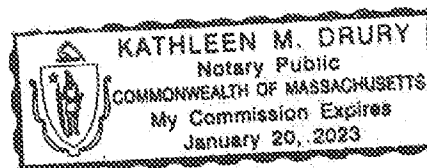
The Commonwealth of Massachusetts

COUNTY OF MIDDLESEX ss.



On this 4th day of JANUARY, 2019, before me, the undersigned notary public, personally appeared GIORDANO CAPONIGRO, proved to me through satisfactory evidence of identification, which were WORKPLACE ID, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.


Notary Public



Zhu Alexandra Cao
Zhu Alexander Cao

Date: Jan 4th, 2019

State of New Jersey)
)ss
County of Merger)

On January 4, 2019 before me, Thomas Kim, Notary Public
in and for said county, personally appeared Zhu Alexander Cao, who
has/have satisfactorily identified him/her/themselves as the signer(s) or/witness(es) to the above-
referenced document.

Thomas Kim
Notary Public Signature

My Commission Expires: 9/28/2021

Thomas Kim
Notary Public
New Jersey
My Commission Expires 9-28-2021
No. 2412894

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: Novartis Institutes for BioMedical Research, Inc.

Signature:

Date:

Name:

Maria I. Stachura
Maria I. Stachura, Authorized Signatory

14 January 2019

Title:

61402732.doc

Amy Olinger
witness name: Amy Olinger

Maria Fica
witness name: MARIA FICA