

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4985271

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAMUEL V. AGRESTA	04/23/2018
YUE CHEN	04/18/2018
MARVIN B. COHEN	05/03/2018
LENNY DANG	04/19/2018
CHARLES KUNG	04/13/2018
ELIZABETH A. MERICA	04/25/2018
BRUCE A. SILVER	05/03/2018
HUA YANG	04/13/2018
RECEIVING PARTY DATA	
Name:	AGIOS PHARMACEUTICALS, INC.
Street Address:	88 SIDNEY STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15735036
CORRESPONDENCE DATA	
Fax Number:	(617)523-1231
<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) 570-3920
Email:	jle@goodwinlaw.com
Correspondent Name:	GOODWIN PROCTER LLP
Address Line 1:	100 NORTHERN AVENUE
Address Line 4:	BOSTON, MASSACHUSETTS 02210
ATTORNEY DOCKET NUMBER:	AGS-077US
NAME OF SUBMITTER:	IOANA DAVIES
SIGNATURE:	/Ioana Davies/

DATE SIGNED:	05/31/2018
---------------------	------------

Total Attachments: 9

source=Assignment Inventors to Agios#page1.tif

source=Assignment Inventors to Agios#page2.tif

source=Assignment Inventors to Agios#page3.tif

source=Assignment Inventors to Agios#page4.tif

source=Assignment Inventors to Agios#page5.tif

source=Assignment Inventors to Agios#page6.tif

source=Assignment Inventors to Agios#page7.tif

source=Assignment Inventors to Agios#page8.tif

source=Assignment Inventors to Agios#page9.tif

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, We, Samuel V. Agresta of 24 Coolidge Road, Lexington, Massachusetts 02420; Yue Chen of 2001 Falls Boulevard, Apt. 321, Quincy, Massachusetts 02169; Marvin B. Cohen of MBC Pharma Solutions, LLC, a Pennsylvania limited liability company of 110 North Lincoln Avenue, Newtown, Pennsylvania 18940; Lenny Dang of 30 Union Park Street, #201, Boston, Massachusetts 02118; Charles Kung of 39 Rockmont Road, Arlington, Massachusetts 02474; Elizabeth A. Merica of 227B Lamartine Street, Boston, Massachusetts 02130; Bruce A. Silver of Bruce A. Silver Clinical Science and Development, LLC, a Maryland limited liability company of 12132 Palisades Drive, Dunkirk, Maryland 20754; and Hua Yang of 48 Conant Street, Acton, Massachusetts 01720 (hereinafter the "Undersigned"), do hereby irrevocably and unconditionally:

CONVEY, ASSIGN AND TRANSFER to Agios Pharmaceuticals, Inc., a Delaware corporation having a place of business at 88 Sidney Street, Cambridge, Massachusetts 02139, United States of America, its successors, assigns and legal representatives (collectively hereinafter the "Assignee"), the Undersigned's entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for the United States Patent entitled **METHODS OF USING PYRUVATE KINASE ACTIVATORS**, with a national stage entry date of December 8, 2017, and assigned U.S. Serial Number 15/735,036, including:

the inventions disclosed in the above-identified application(s);

such application(s), and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including without limitation International Application No. PCT/US2016/036893, filed June 10, 2016 and entitled **METHODS OF USING PYRUVATE KINASE ACTIVATORS**; and U.S. Provisional Application No. 62/174,216, filed June 11, 2015 and entitled **METHODS OF USING PYRUVATE KINASE ACTIVATORS**), and in all foreign countries and jurisdictions based in whole or in part on any of the said inventions and improvements (including any application for a utility model, design registration(s), and inventor's certificate(s));

the right to claim priority to the above-identified application(s) in relation to subject matter based in whole or in part on the above-identified application(s) and any of the foregoing under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes;

the right to file in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventor's certificate(s) for said inventions and improvements in the United States and all foreign countries under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and

the right to all causes of action, remedies, and other enforcement rights related to the above-identified application(s), including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified application(s) and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement.

The Undersigned authorizes and requests the U.S. and foreign patent issuing authority to issue any and all United States and foreign patents (including any application for a utility model, design registrations, and inventor's certificate(s)) on the said inventions and improvements to the Assignee.

The Undersigned covenants, that when requested and at the reasonable expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the inventions and improvements which are subject of the said application(s), as the Assignee may reasonably request to effectuate fully this Assignment; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the inventions and improvements which are subject of the said application(s); (3) communicate to the Assignee all facts known to the Undersigned relating to the inventions and improvements which are subject of the said application(s), and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the inventions and improvements which are subject of the said application(s); and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to the said inventions and improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for the said inventions and improvements.

The Undersigned covenants, that should the execution date, filing date and/or Application Number be not entered or be incorrect at the time the Undersigned executed this document, the Undersigned hereby authorizes and requests an attorney of Assignee to insert the information or make the correction.

IN TESTIMONY WHEREOF, I, Samuel V. Agresta, have executed this document on the date indicated below.

[Signature]
.....
Signature of Inventor

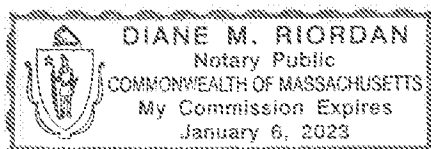
April 23, 2018
.....
Date

Wilmington, MA
.....
Inventor's City, State of Residence

COMMONWEALTH OF MASSACHUSETTS:
COUNTY OF MIDDLESEX:

On this 23rd day of April, 2018, before me, the undersigned notary public, personally appeared Samuel V. Agresta, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

SEAL



Diane M. Riordan
.....
Notary Public

My Commission Expires 1/6/2023

IN TESTIMONY WHEREOF, I, **Yue Chen**, have executed this document on the date indicated below.

[Signature]
Signature of Inventor

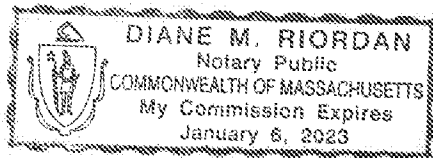
4/18/2018
Date

Quincy MA
Inventor's City, State of Residence

COMMONWEALTH OF MASSACHUSETTS:
COUNTY OF MIDDLESEX:

On this 18th day of April, 2018, before me, the undersigned notary public, personally appeared Yue Chen, proved to me through satisfactory evidence of identification, which were Personal Knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

SEAL



[Signature]
Notary Public

My Commission Expires 1/6/2023

IN TESTIMONY WHEREOF, I, Marvin B. Cohen, have executed this document on the date indicated below.

Marvin Cohen
Signature of Inventor

03 May 2018
Date

Newtown, PA
Inventor's City, State of Residence

STATE OF PA
COUNTY OF Bucks

On this 3 day of May, 2018, before me, the undersigned notary public, personally appeared Marvin Cohen, proved to me through satisfactory evidence of identification, which were Drivers License, to be the person whose name is signed on the preceding or attached document in my presence and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

SEAL

Brian Adelberger
Notary Public
My Commission Expires 10/9/2021

Commonwealth of Pennsylvania
NOTARIAL SEAL
Brian Adelberger, Notary Public
Doylestown, Bucks County
My Commission Expires October 09, 2021

IN TESTIMONY WHEREOF, I, Lenny Dang, have executed this document on the date indicated below.

Lenny Dang
Signature of Inventor

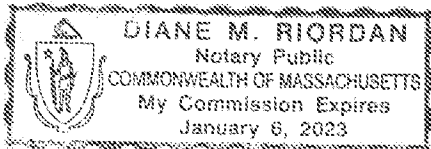
4/19/18
Date

BOSTON MA
Inventor's City, State of Residence

COMMONWEALTH OF MASSACHUSETTS:
COUNTY OF MIDDLESEX:

On this 19th day of April, 2018, before me, the undersigned notary public, personally appeared Lenny Dang, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

SEAL



Diane M. Riordan
Notary Public

My Commission Expires 1/6/2023

IN TESTIMONY WHEREOF, I, Charles Kung, have executed this document on the date indicated below.

Charles Kung
Signature of Inventor

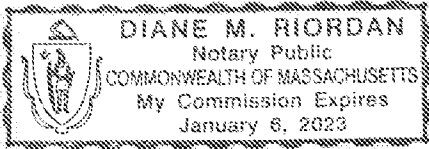
4-13-18
Date

Arlington, MA
Inventor's City, State of Residence

COMMONWEALTH OF MASSACHUSETTS:
COUNTY OF MIDDLESEX:

On this 13th day of April, 2018, before me, the undersigned notary public, personally appeared Charles Kung, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

SEAL



Diane M. Riordan
Notary Public

My Commission Expires 1/6/2023

IN TESTIMONY WHEREOF, I, Elizabeth A. Merica, have executed this document on the date indicated below.

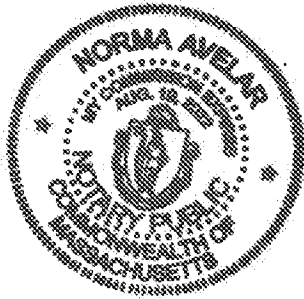
Elizabeth A. Merica
Signature of Inventor
Boston, MA
Inventor's City, State of Residence

15 April 2018
Date

COMMONWEALTH OF MASSACHUSETTS:
COUNTY OF Middlesex :

On this 25 day of April, 2018, before me, the undersigned notary public, personally appeared Elizabeth Merica, proved to me through satisfactory evidence of identification, which were Driver's License, to be the person whose name is signed on the preceding or attached document in my presence.

SEAL



Norma Avellar
Notary Public

My Commission Expires August 19, 2022

IN TESTIMONY WHEREOF, I, Bruce A. Silver, have executed this document on the date indicated below.

Bruce A. Silver

03-MAY-2018

Signature of Inventor

Date

DUNKIRK, MARYLAND

Inventor's City, State of Residence

STATE OF *Maryland*
COUNTY OF *Calvert*

On this *3* day of *May*, 2018, before me, the undersigned notary public, personally appeared *Bruce A. Silver*, proved to me through satisfactory evidence of identification, which were *Maryland Drivers License*, to be the person whose name is signed on the preceding or attached document in my presence and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

SEAL

Leah J. Miller
Notary Public

My Commission Expires *November 07, 2021*



Leah J. Miller
NOTARY PUBLIC
Calvert County
State of Maryland
My Commission Expires
November 07, 2021

IN TESTIMONY WHEREOF, I, Hua Yang, have executed this document on the date indicated below.

Hua Yang
Signature of Inventor

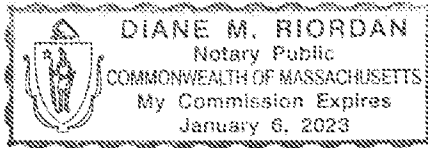
13 Apr 2018
Date

Acton, MA
Inventor's City, State of Residence

COMMONWEALTH OF MASSACHUSETTS:
COUNTY OF MIDDLESEX:

On this 13th day of April, 2018, before me, the undersigned notary public, personally appeared Hua Yang, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

SEAL



Diane M Riordan
Notary Public

My Commission Expires 1/6/2023

ACCEPTED AND AGREED TO BY ASSIGNEE: Agios Pharmaceuticals, Inc.:

Signature: [Signature]

Date: May 30, 2018

Printed name: Min Wang, Ph.D., J.D.

Title: General Counsel