

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4672013

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| SEQUENCE: | 1 |
| CONVEYING PARTY DATA | |
| | |
| Name | Execution Date |
| SAMUEL V. AGRESTA | 06/15/2016 |
| CHONG-HUI GU | 05/31/2016 |
| DAVID SCHENKEIN | 06/06/2016 |
| HUA YANG | 05/26/2016 |
| 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: | 15649551 |
| CORRESPONDENCE DATA | |
| Fax Number: | (212)755-7306 |
| <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: | 858-314-1200 |
| Email: | cjhines@jonesday.com, wtokmakidis@jonesday.com |
| Correspondent Name: | JONES DAY |
| Address Line 1: | 250 VESEY STREET |
| Address Line 2: | WENDY TOKMAKIDIS |
| Address Line 4: | NEW YORK, NEW YORK 10281-1047 |
| ATTORNEY DOCKET NUMBER: | 14247-203-999 |
| NAME OF SUBMITTER: | CARRIE J. HINES |
| SIGNATURE: | /Carrie J. Hines/ |
| DATE SIGNED: | 11/02/2017 |
| Total Attachments: 3 | |

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ASSIGNMENT

WHEREAS, WE, **Samuel V. AGRESTA**, citizen of the United States, having a mailing address of 24 Coolidge Road, Lexington, MA 02420, **Chong-Hui GU**, citizen of the United States, having a mailing address of 217 Varick Road, Waban, MA 02468, **David SCHENKEIN**, citizen of the United States, having a mailing address of 21 Wormwood Street, Apt. 622, Boston, MA 02210 and **Hua YANG**, citizen of the United States, having a mailing address of 48 Conant Street, Acton, MA 01720, ASSIGNORS, are the inventors of the invention in THERAPEUTICALLY ACTIVE COMPOUNDS AND THEIR METHODS OF USE for which an application for a Patent of the United States has been filed

which is identified by Jones Day docket no. 12827-843-999/226269-999843

which was filed on February 1, 2016, Application No. 14/909,451

and WHEREAS, **AGIOS PHARMACEUTICALS, INC.**, a corporation organized and existing under the laws of the state of Delaware, and having an office for the transaction of business at 88 Sidney Street, Cambridge, MA 02139, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

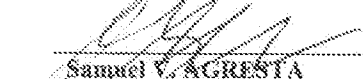
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement.

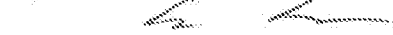
AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

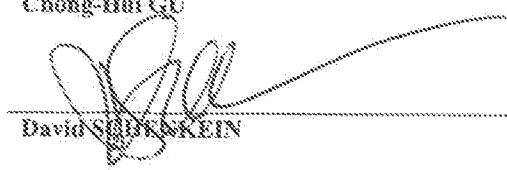
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 15 June, 2016  L.S.
 Samuel V. AGRESTA

Date 31 May, 2016  L.S.
 Chong-Hui GU

Date 6 June, 2016  L.S.
 David SCHENKEIN

Date 26 May 2016, 2016

Hua YANG

[Handwritten signature]

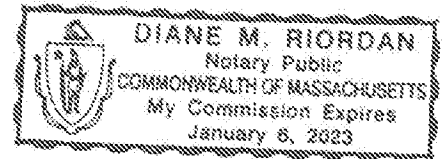
L.S.

COMMONWEALTH OF MASSACHUSETTS)
) SS.:
COUNTY OF MIDDLESEX)

On June 15, 2016 before me, Diane M. Riordan, Notary Public, personally appeared Samuel V. AGRESTA, personally known 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 Diane M. Riordan (Seal)

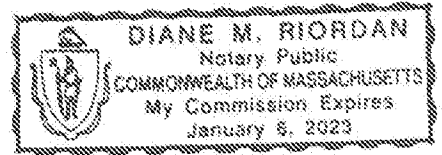


COMMONWEALTH OF MASSACHUSETTS)
) SS.:
COUNTY OF MIDDLESEX)

On May 31, 2016 before me, Diane M. Riordan, Notary Public, personally appeared Chong-Hui GU, personally known 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 Diane M. Riordan (Seal)

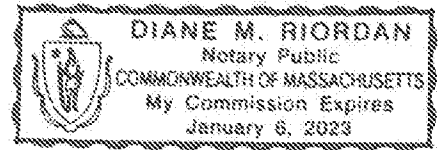


COMMONWEALTH OF MASSACHUSETTS)
) SS.:
COUNTY OF MIDDLESEX)

On June 6, 2016 before me, Diane M. Riordan, Notary Public, personally appeared David SCHENKEIN, personally known 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 Diane M. Riordan (Seal)

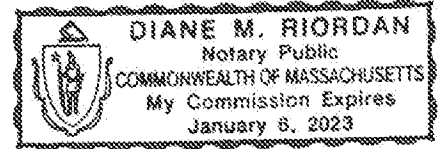


COMMONWEALTH OF MASSACHUSETTS)
) SS:
COUNTY OF MIDDLESEX)

On May 26, 2016 before me, Diane M. Riordan, Notary Public, personally appeared **Hua YANG**, personally known 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 Diane M. Riordan (Seal)



ACCEPTED AND AGREED TO BY ASSIGNEE, AGIOS PHARMACEUTICALS, INC.:

Signature: [Handwritten Signature]

Date: June 15, 2016

Printed Name: Min Wang, Ph.D., J.D.
SVP Legal and Secretary

Title: _____