

ASSIGNMENT

WHEREAS I/We, the below-named inventor(s) (hereinafter referred to as Assignor(s)), of an invention entitled:

METHODS OF TREATMENT FOR CYSTIC FIBROSIS

as disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
62/517,049	US	June 8, 2017
62/533,381	US	July 17, 2017
62/562,044	US	September 22, 2017
62/623,757	US	January 30, 2018
62/633,021	US	February 20, 2018
62/649,266	US	March 28, 2018

by virtue of our agreements with Vertex Pharmaceuticals Incorporated, a corporation of Massachusetts whose post office address is 50 Northern Avenue, Boston, Massachusetts 02210, USA (hereinafter referred to as Assignee), confirm assignment and hereby assign to assignee the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignors, confirm that all rights in the inventions and applications listed above automatically transferred to Assignee by virtue of my/our agreements. For the avoidance of doubt, Assignors hereby confirm having sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and/or claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE covenant that have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket No. VPI/17-109 US PRV1, PRV2, PRV3, PRV4, PRV5, PRV6

Sam Moskowitz
Samuel Moskowitz

Date: 25-MAY-2018

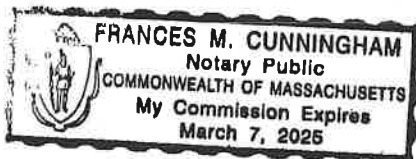
Commonwealth of Massachusetts
County of Suffolk

On this 25th day of May, 2018, before me, the undersigned notary public, personally appeared Samuel Moskowitz (name of document signer), proved to me through satisfactory evidence of identification, which was/were ☐ personal knowledge of identity, ☐ a driver's license, ☒ other (please identify) employment ID, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Frances M. Cunningham

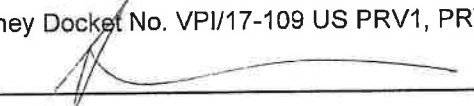
Notary Public

My Commission Expires March 7, 2025



SOLE/JOINT INVENTION
(Worldwide Rights)

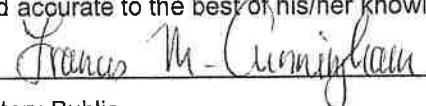
Attorney Docket No. VPI/17-109 US PRV1, PRV2, PRV3, PRV4, PRV5, PRV6


Sarah Robertson

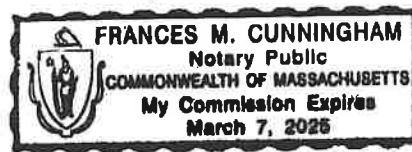
Date: 24 May 2018

Commonwealth of Massachusetts
County of Suffolk

On this 24th day of May, 2018, before me, the undersigned notary public, personally appeared Sarah Robertson (name of document signer), proved to me through satisfactory evidence of identification, which was/were ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.


Notary Public

My Commission Expires March 7, 2025



Attorney Docket No. VPI/17-109 US PRV1, PRV2, PRV3, PRV4, PRV5, PRV6

Date: 24 May 2018

accurate to the best of his/her knowledge

Francis M. Cunniff

Notary Public

My Commission Expires March 7, 2025



SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket No. VPI/17-109 US PRV1, PRV2, PRV3, PRV4, PRV5, PRV6

Eric L. Haseltine

Eric L. Haseltine

Date: 24 May 2018

Commonwealth of Massachusetts
County of Suffolk

On this 24 day of May, 2018, before me, the undersigned notary public, personally appeared Eric L.

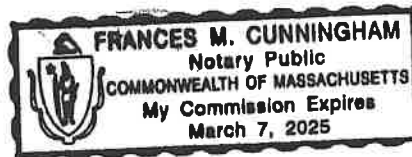
Haseltine (name of document signer), proved to me through satisfactory evidence of identification, which was/were ☒

personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person
whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful
and accurate to the best of his/her knowledge and belief.

Frances M. Cunningham

Notary Public

My Commission Expires March 7, 2025



SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket No. VPI/17-109 US PRV1, PRV2, PRV3, PRV4, PRV5, PRV6

ACKNOWLEDGEMENT OF ASSIGNEE


Name: Konstantinos Andrikopoulos

Title: IP Counsel

On behalf of Vertex Pharmaceuticals Incorporated

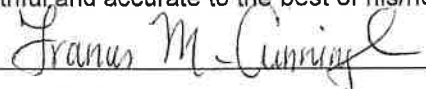
25 MAY 2018

Date

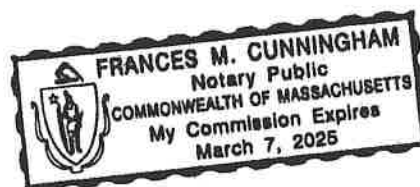
Commonwealth of Massachusetts
County of Suffolk

On this 25th day of May, 2018, before me, the undersigned notary public, personally appeared Konstantinos Andrikopoulos (name of document signer), proved to me through satisfactory evidence of identification, which was/were

☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.


Notary Public

My Commission Expires March 7, 2025



ASSIGNMENT

WHEREAS I/We, the below-named inventor(s) (hereinafter referred to as Assignor(s)), of an invention entitled:

METHODS OF TREATMENT FOR CYSTIC FIBROSIS

as disclosed and claimed in the applications identified below this paragraph:

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NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignors, confirm that all rights in the inventions and applications listed above automatically transferred to Assignee by virtue of my/our agreements. For the avoidance of doubt, Assignors hereby confirm having sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and/or claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE covenant that have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket No. VPI/17-109 US PRV1, PRV2, PRV3, PRV4, PRV5, PRV6

Weichao G. Chen

Weichao George Chen

Date: 02/04/2019

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of San Diego

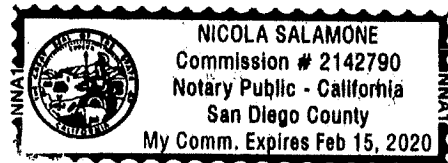
On February 4, 2019 before me, Nicola Salamone, Notary Public
(insert name and title of the officer)

personally appeared Weichao George Chen, who proved 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Nicola Salamone (Seal)



ACKNOWLEDGEMENT OF ASSIGNEE

Kerry A. Flynn
Name: Kerry A. Flynn

Title: VP, IP and Chief IP Counsel

On behalf of Vertex Pharmaceuticals Incorporated

February 5, 2019
Date

Commonwealth of Massachusetts

County of Suffolk

On this 5th day of February, 2019, before me, the undersigned notary public, personally appeared Kerry A.

Flynn (name of document signer), proved to me through satisfactory evidence of identification, which was/were ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person

whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Frances M. Cunningham
Notary Public

My Commission Expires March 7, 2025

