

ASSIGNMENT

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

MODULATORS OF ALPHA-1 ANTITRYPSIN

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

Application Number	Country of Filing	Filing Date
62/742,148	United States	October 5, 2018
62/768,662	United States	November 16, 2018
16/593,118	United States	October 4, 2019
PCT/US2019/054681	PCT	October 4, 2019
108136173	Taiwan	October 5, 2019
20190102847	Argentina	October 7, 2019
38403	Uruguay	October 7, 2019
2019-000563	Venezuela	October 7, 2019

by virtue of my agreement 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, as Assignor, confirm that all rights in the inventions and applications listed above automatically transferred to Assignee by virtue of our agreements. For the avoidance of doubt, Assignor hereby confirms 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 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 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 covenant that I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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.

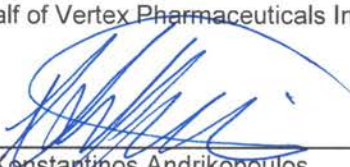
IN TESTIMONY WHEREOF, I have hereunto set my hand:


Kevin Michael COTTRELL

Date: March 10, 2021

ACKNOWLEDGEMENT OF ASSIGNEE

On behalf of Vertex Pharmaceuticals Incorporated:



Name: Konstantinos Andrikopoulos
Title: Executive Director, IP

23 MAR 2021

Date