



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 20, 2019

PTAS

IONIS PHARMACEUTICALS, INC.
2855 GAZELLE COURT
CARLSBAD, CA 92010

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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 12/19/2019

REEL/FRAME: 051332/0024
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: BIOL0344W0

ASSIGNOR:
REVENKO, ALEXEY

DOC DATE: 12/17/2019

ASSIGNOR:
MACLEOD, ROBERT A.

DOC DATE: 12/17/2019

ASSIGNOR:
FREIER, SUSAN M.

DOC DATE: 12/17/2019

ASSIGNEE:
IONIS PHARMACEUTICALS, INC.
2855 GAZELLE COURT
CARLSBAD, CALIFORNIA 92010

APPLICATION NUMBER:
PATENT NUMBER:
PCT NUMBER: US2019061508
TITLE: MODULATORS OF FOXP3 EXPRESSION

FILING DATE: 11/14/2019
ISSUE DATE:

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALEXEY REVENKO	12/17/2019
ROBERT A. MACLEOD	12/17/2019
SUSAN M. FREIER	12/17/2019
RECEIVING PARTY DATA	
Name:	IONIS PHARMACEUTICALS, INC.
Street Address:	2855 GAZELLE COURT
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92010
PROPERTY NUMBERS Total: 1	
Property Type	Number
PCT Number:	US2019061508
CORRESPONDENCE DATA	
Fax Number:	(760)603-3820
Phone:	760-603-2553
Email:	leames@ionisph.com
<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>	
Correspondent Name:	IONIS PHARMACEUTICALS, INC.
Address Line 1:	2855 GAZELLE COURT
Address Line 4:	CARLSBAD, CALIFORNIA 92010
ATTORNEY DOCKET NUMBER:	BIOL0344WO
NAME OF SUBMITTER:	LAURA EAMES
Signature:	/Laura Eames/
Date:	12/19/2019
Total Attachments: 6 source=BIOL0344WOASGN#page1.tif source=BIOL0344WOASGN#page2.tif	

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RECEIPT INFORMATION

EPAS ID: PAT5876903
Receipt Date: 12/19/2019

A S S I G N M E N T

WHEREAS, I/we, **Alexey Revenko**, of **San Diego, CA**, **Robert A. MacLeod**, of **San Diego, CA**, and **Susan M. Freier**, of **San Diego, CA** (the “assignors”), has/have invented a certain invention entitled **MODULATORS OF FOXP3 EXPRESSION**, for which I/we have made an application for letters patent of the United States and foreign jurisdictions through the Patent Cooperation Treaty, said application having been filed **November 14, 2019** and assigned application no. **PCT/US2019/061508** (the “Application”); and

WHEREAS, **Ionis Pharmaceuticals, Inc.** hereinafter referred to as the assignee, of 2855 Gazelle Court, Carlsbad CA, a corporation of Delaware, is desirous of acquiring my/our entire right, title and interest in and to the said invention and improvements therein (the “Invention”) and in and to the said Application, and in, to and under any and all letters patent or patents which may be granted on or as a result thereof or otherwise relate to the Invention in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of one dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, or by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said Invention and said Application (including the right to apply for any letters patent or patents for any countries in relation to the Invention and all priority rights) and any and all continuations, continuations-in-part, divisions, rights of priority under International Conventions including the Paris Convention, and renewals of and substitutes for said Application, and in, to and under any and all letters patent or patents which may be granted on or as a result thereof or otherwise relate to the Invention in the United States and any and all other countries, and any reissue or reissues or extension or extensions or supplementary protection certificates in relation to any of said letters patent or patents, and assign to and authorize said assignee to file in our names applications for letters patent or patents in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said letters patent or patents

respectively may be granted, reissued, extended or supplemented, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant 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 further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said Invention, said Application and said letters patent or patents to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said Invention, said Application and said letters patent or patents, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby sell, assign, transfer, and convey to assignee all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to said assignee, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent or patents before or after issuance.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all letters patent and patents for said Invention, including any and all letters patent of the United States which may be issued and granted on or as a result of the Application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: Dec 17th 2019


Alexey Revenko

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) ss.

On December 17, 2019 before me, Laura L. Eames, Notary Public, personally appeared **Alexey Revenko**, who is 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 of Notary

Dated: 12/17 20 19


Robert A. MacLeod

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) ss.

On December 17, 2019 before me, Laura L Eames, Notary Public, personally appeared **Robert A. MacLeod**, who is 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 of Notary

Dated: 17-Dec 2019

Susan M. Freier

Susan M. Freier

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) ss.

On December 17, 2019 before me, Laura L Eames, Notary Public, personally appeared **Susan M. Freier**, who is 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.

Laura L Eames

Signature of Notary

IONIS PHARMACEUTICALS, INC.

By: 

Dated: 12/18 2019

Name: **Clifford E. Ford**

Title: **Vice President, Patents and Senior Patent Counsel**

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) ss.

On December 18, 2019 before me, Laura L. Eames, Notary Public, personally appeared **Clifford E. Ford**, who is 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 of Notary