508672077 07/25/2024

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI388041

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Susan M. Freier	09/05/2014
Huynh-Hoa Bui	09/05/2014

RECEIVING PARTY DATA

Company Name:	Isis Pharmaceuticals, Inc.	
Street Address:	2855 Gazelle Ct	
City:	Carlsbad	
State/Country:	CALIFORNIA	
Postal Code:	92010	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14915039

CORRESPONDENCE DATA

Fax Number: 7606033820

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.

Phone: 7606032553

Email: leames@ionisph.com

Correspondent Name: Laura Eames

Address Line 1: lonis Pharmaceuticals, Inc.

Address Line 2: 2855 Gazelle Ct

Address Line 4: Carlsbad, CALIFORNIA 92010

ATTORNEY DOCKET NUMBER: BIOL0172USA		
NAME OF SUBMITTER:	Mrs. Laura Eames	
SIGNATURE:	Mrs. Laura Eames	
DATE SIGNED:	07/25/2024	

Total Attachments: 5

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ASSIGNMENT

WHEREAS, I/we, Susan M. Freier, of San Diego, CA, and Huynh-Hoa Bui, of San

Diego, CA (the "assignors"), has/have invented a certain invention entitled MODULATION

OF PREKALLIKREIN (PKK) 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 August 28, 2014 and assigned application no.

PCT/US2014/053266 (the "Application"); and

WHEREAS, ISIS 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

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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.

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

Susan M. Freier

Notary

On September 5, 2014 before me, Qural Earnes, 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.

> LAURA L. EAMES Commission # 1972276 Notary Public - California San Diego County My Comm. Expires Apr 13, 2016

WITNESS my hand and official seal.

Signature of Notary

Dated: September 5th 2014

State of California

County of San Diego

On September 5, 2014 before me, Laural Fames, Notary Public, personally appeared Huynh-Hoa Bui, 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.

> LAURA L. EAMES Commission # 1972276 Notary Public - California San Diego County My Comm. Expires Apr 13, 2016

WITNES8/my hand and official seal.

Signature of Notary

ISIS PHARMACEUTICALS, INC.

By: Name: Jason D. Ferrone

Title: Vice President, Patents and Corporate Development

State of (althornia)

SS.

County of San Diego

On <u>Sept. 5, 2c1</u> before me, <u>Lawra L Eamos</u>, Notary Public, personally appeared **Jason D. Ferrone**, 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.

LAURA L. EAMES
Commission # 1972276
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2016

WITNESS my hand and official seal.

Signature of Notary

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Dated: 55 4 20/4

PATENT REEL: 068089 FRAME: 0189

RECORDED: 07/25/2024