

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6118175

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	Eric E. Swayze	04/27/2015
RECEIVING PARTY DATA		
Name:	ISIS PHARMACEUTICALS, INC.	
Street Address:	2855 GAZELLE COURT	
City:	CARLSBAD	
State/Country:	CALIFORNIA	
Postal Code:	92010	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16849583
CORRESPONDENCE DATA		
Fax Number:	(877)769-7945	
<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:	(617) 542-5070	
Email:	apsi@fr.com	
Correspondent Name:	JOSEPH J. KOIPALLY	
Address Line 1:	FISH & RICHARDSON P.C.	
Address Line 2:	P.O.BOX 1022	
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022	
ATTORNEY DOCKET NUMBER:	13751-0317003	
NAME OF SUBMITTER:	CAROL TYRRELL	
SIGNATURE:	/Carol Tyrrell/	
DATE SIGNED:	05/21/2020	
Total Attachments: 12		
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ASSIGNMENT

WHEREAS, I/we, Eric E. Swayze, of Encinitas, CA, Tracy Cole, of Encinitas, CA, Holly Kordasiewicz, of San Diego, CA, Susan M. Freier, of San Diego, CA, Thomas P. Condon, of Singapore, Edward Wancewicz, of Poway, CA, Trisha Lockhart, of Seattle, WA, Timothy Vickers, of Oceanside, CA, and Priyam Singh, of Brisbane, CA (the “assignors”), has/have invented a certain invention entitled **COMPOSITIONS FOR MODULATING SOD-1 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 **April 1, 2015** and assigned application no. **PCT/US2015/023934** (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 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: 4/27 2015

Eric E. Swayze
Eric E. Swayze

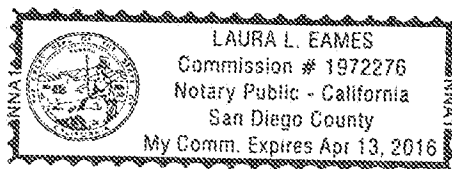
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
County of San Diego) ss.

On April 27, 2015 before me, Laura L. Eames, Notary Public, personally appeared **Eric E. Swayze**, 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

Dated: 10-7 2015

Tracy Cole

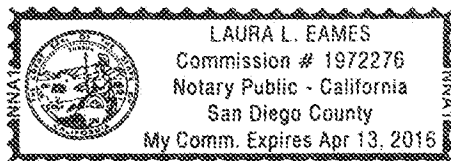
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
County of San Diego) ss.

On October 7, 2015 before me, Laura L. Eames, Notary Public, personally appeared **Tracy Cole**, 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.

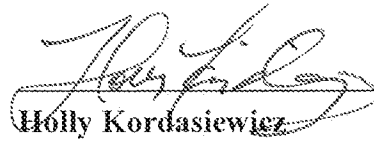
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Laura L. Eames
Signature of Notary

Dated: 9/24 2015

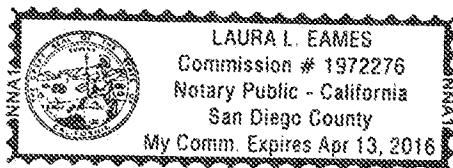

Holly Kordasiewicz

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.

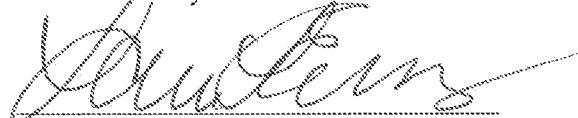
State of California)
County of San Diego) ss.

On Sept. 24, 2015 before me, Laura L. Eames, Notary Public, personally appeared **Holly Kordasiewicz**, 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: 9/29 2015

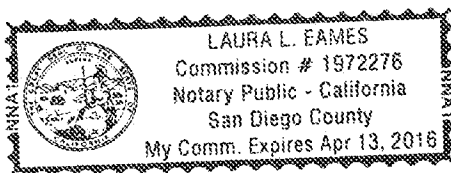
Susan M. Freier
Susan M. Freier

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 Sept. 29, 2015 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

Dated: 26 Aug 2015


Thomas P. Condon

STATEMENT OF WITNESSES

I was personally present and did see **Thomas P. Condon** execute the above assignment, and he/she is personally known to me to be the person described in this document.

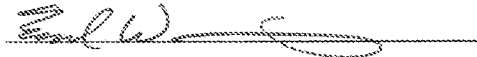
(1) 
Name: NOORAISHA BINTE MD YUSOFF

Date: 26 AUG 2015

(2) Paris M. Cullen
Name: Paris M. Cullen

Date: 26 August 2015

Dated: 21 SEPTEMBER 2015


Edward Wancewicz

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.

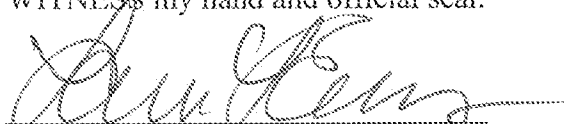
State of California)
)
County of San Diego) ss.

On September 21, 2015 before me, Laura L. Eames, Notary Public, personally appeared **Edward Wancewicz**, 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.

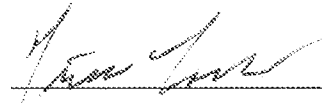
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.





Signature of Notary

Dated: Sept. 28, 2015



Trisha Lockhart

STATEMENT OF WITNESSES

I was personally present and did see **Trisha Lockhart** execute the above assignment, and he/she is personally known to me to be the person described in this document.

(1) 
Name: Lindsay Lockhart

Date: 9-28-2015

(2) 
Name: Matthew C Brown

Date: 9-28-2015

Dated: 9/23 20 15


Timothy Vickers

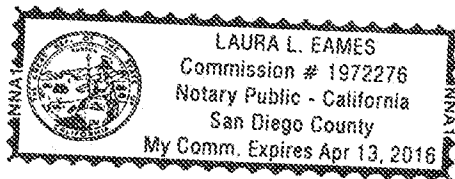
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

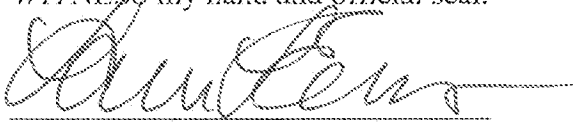
State of California)
County of San Diego) ss.

On Sept. 23, 2015 before me, Laura L. Eames, Notary Public, personally appeared **Timothy Vickers**, 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: 8/12/16 20



Priyam Singh

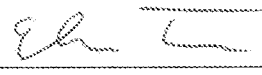
STATEMENT OF WITNESSES

I was personally present and did see **Priyam Singh** execute the above assignment, and he/she is personally known to me to be the person described in this document.

(1) 

Name: Arnold Liao

Date: Aug 22, 2016

(2) 

Name: Elisa Tsan

Date: 8/22/16

DOCKET NO.: BIOL0240WO

ISIS PHARMACEUTICALS, INC.

By: *Clifford E. Ford*

Dated: 8/25 2016

Name: **Clifford E. Ford**

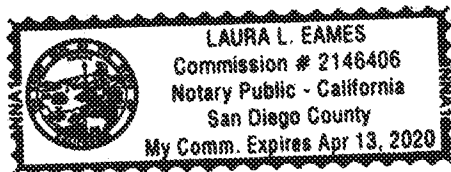
Title: **Vice President, Patents and Senior Patent Counsel**

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 August 25, 2016 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.

Laura L. Eames
Signature of Notary

ASSIGNMENT - Page 12 of 12