

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 70%; padding: 5px;">Name</th> <th style="width: 30%; padding: 5px;">Execution Date</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">Eric E. Swayze</td><td style="padding: 5px;">06/18/2008</td></tr> <tr><td style="padding: 5px;">Stephen Hanessian</td><td style="padding: 5px;">07/10/2008</td></tr> <tr><td style="padding: 5px;">Janek Szychowski</td><td style="padding: 5px;">06/23/2008</td></tr> <tr><td style="padding: 5px;">Susanta Sekhar Adhikari</td><td style="padding: 5px;">02/07/2008</td></tr> <tr><td style="padding: 5px;">Kandasamy Pachamuthu</td><td style="padding: 5px;">07/26/2008</td></tr> <tr><td style="padding: 5px;">Xiaojing Wang</td><td style="padding: 5px;">06/25/2008</td></tr> <tr><td style="padding: 5px;">Michael T. Migawa</td><td style="padding: 5px;">06/18/2008</td></tr> <tr><td style="padding: 5px;">Richard H. Griffey</td><td style="padding: 5px;">06/17/2008</td></tr> </tbody> </table>		Name	Execution Date	Eric E. Swayze	06/18/2008	Stephen Hanessian	07/10/2008	Janek Szychowski	06/23/2008	Susanta Sekhar Adhikari	02/07/2008	Kandasamy Pachamuthu	07/26/2008	Xiaojing Wang	06/25/2008	Michael T. Migawa	06/18/2008	Richard H. Griffey	06/17/2008
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RECEIVING PARTY DATA <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr><td style="width: 20%; padding: 5px;">Name:</td><td style="padding: 5px;">ISIS Pharmaceuticals, Inc.</td></tr> <tr><td style="padding: 5px;">Street Address:</td><td style="padding: 5px;">1896 Rutherford Road</td></tr> <tr><td style="padding: 5px;">City:</td><td style="padding: 5px;">Carlsbad</td></tr> <tr><td style="padding: 5px;">State/Country:</td><td style="padding: 5px;">CALIFORNIA</td></tr> <tr><td style="padding: 5px;">Postal Code:</td><td style="padding: 5px;">92008-7208</td></tr> </table>		Name:	ISIS Pharmaceuticals, Inc.	Street Address:	1896 Rutherford Road	City:	Carlsbad	State/Country:	CALIFORNIA	Postal Code:	92008-7208								
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CORRESPONDENCE DATA <p style="margin-top: 10px;">Fax Number: (206)682-6031</p> <p style="margin-top: 5px;"><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p style="margin-top: 5px;">Phone: 2066224900</p> <p style="margin-top: 5px;">Email: carolw@seedip.com</p> <p style="margin-top: 5px;">Correspondent Name: Emily W. Wagner</p> <p style="margin-top: 5px;">Address Line 1: 701 Fifth Avenue</p> <p style="margin-top: 5px;">Address Line 2: Suite 5400</p> <p style="margin-top: 5px;">Address Line 4: Seattle, WASHINGTON 98104-7092</p>																			

CH \$40.00 12130048

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PATENT
REEL: 021357 FRAME: 0839

ATTORNEY DOCKET NUMBER:

110191.411C1

NAME OF SUBMITTER:

Emily W. Wagner

Total Attachments: 9

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ASSIGNMENT

WHEREAS, we,

Name	Residence Address	
Eric E. Swayze	7789 Palenque Street, Carlsbad, California 92009	;
Stephen Hanessian	65 Gables Court, Beaconsfield, Québec, Canada H9W 5H3	;
Janek Szychowski	1700 Rue Aladin, Val Belair, Québec, Canada G3K 1G3	;
Susanta Sekhar Adhikari	17 Bagmari Lane, B.r.s. 10 Block-3, Flat-31, Kankurgachi, Calcutta, West Bengal, India	;
Kandasamy Pachamuthu	500 Murray Ross Parkway, Apartment #1816, North York, Ontario, Canada M3J 2Z3	;
Xiaojing Wang	736 Bounty Drive #3604, Foster City, California 94404	;
Michael T. Migawa	930 Wind Drift Drive, Carlsbad, California 92011	; and
Richard H. Griffey	360 Barsby Street, Vista, California 92084	

(hereinafter referred to as ASSIGNORS), having residence addresses as listed above next to our names, are the listed inventors/applicants of the patent application entitled "**ANTIBACTERIAL 4,5-SUBSTITUTED AMINOGLYCOSIDE ANALOGS HAVING MULTIPLE SUBSTITUTENTS**," as filed with the U.S. Patent and Trademark Office on **May 3, 2008**, and assigned Application No. **12/130,048**. This application is a continuation of International Application No. PCT/US2006/046122 filed December 1, 2006; which claims the benefit of U.S. Provisional Patent Application No. 60/742,051 filed December 2, 2005.

WHEREAS, **ISIS Pharmaceuticals, Inc.** (hereinafter referred to as ASSIGNEE), a corporation of the State of Delaware having a place of business at 1896 Rutherford Road, Carlsbad, California 92008-7208, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and

enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

This Assignment is effective as of December 1, 2006.

6/18/2008
Date

Eric E. Swayze
Eric E. Swayze

State of California

County of San Diego

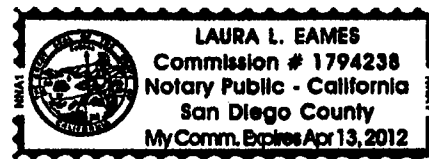
On June 18, 2008, before me, Laura L. Eames, Notary Public,
(Here insert name and title of the officer)
personally appeared Eric E. Swayze

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]
Signature of Notary Public



(Notary Seal)

July 10, 2008
Date

Stephen Hanessian
Stephen Hanessian

Province of _____)
Country of Canada _____)

ss.

I certify that I know or have satisfactory evidence that **Stephen Hanessian** is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated July 10, 2008
Signature of Notary Public Jocelyne Giguère
Printed Name Jocelyne Giguère

My appointment never expires.



06-23-2008
Date

Janek Szychowski
Janek Szychowski

Province of Quebec)
Country of Canada)

ss.

I certify that I know or have satisfactory evidence that **Janek Szychowski** is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 06-23-2008

Signature of
Notary Public Vickie Mercier

Printed Name Vickie Mercier

My appointment never expires.

02-07-'08
Date

Susanta Sekhar Adhikari
Susanta Sekhar Adhikari

Witnessed by: Sikhar Saha

Date: 02.07.08

July 26, 2008
Date

K. Pachamuthu
Kandasamy Pachamuthu

Province of ON)
)
Country of Canada)

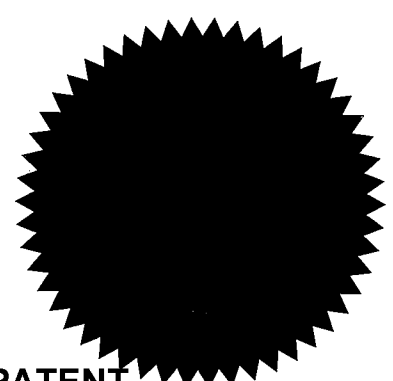
ss.

I certify that I know or have satisfactory evidence that **Kandasamy Pachamuthu** is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated July 26, 2008
Signature of Notary Public [Signature]
Printed Name Chad David Rawn

My appointment never expires.

CHAD D. RAWN
BARRISTER, SOLICITOR, NOTARY PUBLIC
469 Lawrence Ave. West, Suite 100
Toronto, Ontario M5M 1C6
Tel.: 416-712-8315 Fax: 416-781-2668



6-25-08
Date

Xiaojing Wang

State of California

County of San Mateo

On 6/25/08, before me, September C. Plumlee, Notary Public,
(Here insert name and title of the officer)
personally appeared Xiaojing Wang,

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.

September C. Plumlee
Signature of Notary Public



(Notary Seal)

6/18/2008
Date

Michael T. Migawa
Michael T. Migawa

State of California

County of San Diego

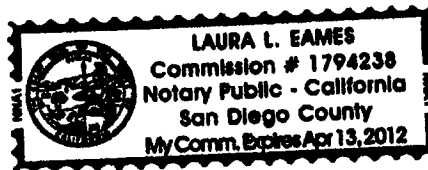
On June 18, 2008, before me, Laura L. Eames, Notary Public,
(Here insert name and title of the officer)
personally appeared Michael T. Migawa,

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.

Laura L. Eames
Signature of Notary Public



(Notary Seal)

6/17/08
Date

Richard H. Griffey
Richard H. Griffey

State of California

County of San Diego

On June 17, 2008, before me, Laura L Eames,
(Here insert name and title of the officer)
personally appeared Richard H. Griffey

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.

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WITNESS my hand and official seal.

[Signature]
Signature of Notary Public



(Notary Seal)

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