

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

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

RECEIVING PARTY DATA

Name:	ISIS Pharmaceuticals, Inc.
Street Address:	1896 Rutherford Road
City:	Carlsbad
State/Country:	CALIFORNIA
Postal Code:	92008-7208

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12987842

CORRESPONDENCE DATA

Fax Number: (206)682-6031  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: (206) 622-4900  
Email: susanc@seedip.com  
Correspondent Name: Emily W. Wagner  
Address Line 1: 701 Fifth Avenue  
Address Line 2: Suite 5400  
Address Line 4: Seattle, WASHINGTON 98104

501479090

PATENT  
REEL: 026018 FRAME: 0447

CH \$40.00 12987842

ATTORNEY DOCKET NUMBER:	110191.411C2
NAME OF SUBMITTER:	Emily W. Wagner
<p>Total Attachments: 9</p> <p>source=411C2_ASSIGN#page1.tif</p> <p>source=411C2_ASSIGN#page2.tif</p> <p>source=411C2_ASSIGN#page3.tif</p> <p>source=411C2_ASSIGN#page4.tif</p> <p>source=411C2_ASSIGN#page5.tif</p> <p>source=411C2_ASSIGN#page6.tif</p> <p>source=411C2_ASSIGN#page7.tif</p> <p>source=411C2_ASSIGN#page8.tif</p> <p>source=411C2_ASSIGN#page9.tif</p>	

## 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

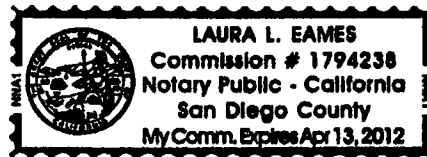
On June 18, 2008, before me, Laura L. Eames, Notary Public,  
(Here insert name and title of the officer)  
personally appeared Eric E. Swayze

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  
Signature

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: Skbari Saha

Date: 02.07.08

July 26, 2008  
Date

K. Pachamuthu  
Kandasamy Pachamuthu

Province of ON)  
)  
Country of Canada )

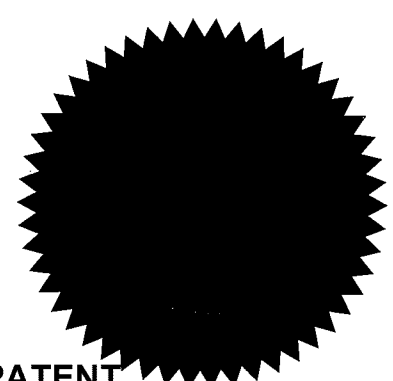
ss.

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.

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)

1180580\_1.DOC IBIS-0045US.C1