### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Punit P. Seth	10/26/2010
Michael T. Migawa	10/26/2010
Eric E. Swayze	10/27/2010
Quanlai Song	10/01/2010
Mingming Han	10/04/2010
Bruce S. Ross	09/27/2010

### **RECEIVING PARTY DATA**

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

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12866708

### CORRESPONDENCE DATA

Fax Number: (760)603-3820

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 760-603-2553

Email: leames@isisph.com

Correspondent Name: Isis Pharmaceuticals, Inc.

Address Line 1: 1896 Rutherford Road

Address Line 4: Carlsbad, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	CHEM0037USA
NAME OF SUBMITTER:	Laura Eames
	PATENT

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PATENT REEL: 025214 FRAME: 0263

ASSIGNMENT

WHEREAS, I/we, Punit P. Seth, of Carlsbad, Michael T. Migawa, of Carlsbad, CA,

CA, Eric E. Swayze, of Encinitas, CA, Quanlai Song, of Carlsbad, CA, Mingming Han, of

Nazareth, PA, and Bruce S. Ross, of Princeton, NJ, has/have invented a certain invention

entitled BICYCLIC CYCLOHEXITOL NUCLEIC ACID ANALOGS, for which I/we have

made an application for letters patent of the United States, said application having been filed

August 6, 2010 and assigned application no. 12/866,708; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 1896

Rutherford Road, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire

right, title and interest in and to the said inventions or improvements and in and to the said

application, and in, to and under any and all letters patent which may be granted on or as a result

thereof 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, and

by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right,

title and interest in and to said inventions or improvements and said application and any and all

continuations, divisions and renewals of and substitutes for said application, and in, to and under

any and all letters patent which may be granted on or as a result thereof in the United States and

any and all other countries, and any reissue or reissues or extension or extensions of said letters

patent, and assign to and authorize said assignee, to file in our names applications for letters

patent 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

respectively may be granted, reissued or extended, as fully and entirely as the same would have

been held and enjoyed by us had this assignment, sale and transfer not been made.

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PATENT

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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 inventions or improvements, said application and said letters patent 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 inventions or improvements, said

application and said letters patent, 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 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 for said inventions or improvements,

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.

Dated:	(0)	26	_20 10

Punit P. Seth

State of	California
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SS.

County of San Diego

On <u>October 20, 2010</u> before me, <u>Loura L. Earnes</u>, Notary Public, personally appeared **Punit P. Seth**, 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 # 1794238
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2012

WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: CHEM0037USA

**PATENT** 

Dated:

10/26 20/6

Michael T. Migawa

State of California

SS.

County of San Diego

On <u>October 210, 2010</u> before me, <u>Laura L. Eames</u>, Notary Public, personally appeared Michael T. Migawa, 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 # 1794238
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2012

WITNESS my hand and official seal.

Signature of Notary

Dated: 10/77\_\_\_\_2010

Eric E. Swayze

State of <u>California</u>)

SS.

County of San Diego

On <u>Cytober 27, 2010</u> before me, <u>Oura L. Fames</u>, 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.

LAURA L. EAMES
Commission # 1794238
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2012

WITNESS my hand and official seal.

Signature of Notary

Dated: \_\_\_\_\_\_20<u>/ v</u>

**Quanlai** Song

og auli:

## STATEMENT OF WITNESSES

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

Signature

Signati

Date:  $\frac{\partial}{\partial}$ 

Date: 10/1/10

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Dated: 0 ct. 4 2010

Mingming Han

# STATEMENT OF WITNESSES

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

(1)\_\_\_\_/\/\ Signature

(2) / / / /

Signature

Date:

Date: 04 Oct 2010

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Dated: 9/27 20/0

### STATEMENT OF WITNESSES

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

(1) Harry Early
Signature

(2) Pheelly
Signature

Date: Sept. 27, 20/0

Date: .09 27 10

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**RECORDED: 10/28/2010**