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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Balkrishen Bhat	11/27/2006	
Eric E. Swayze	11/27/2006	
Thazha P. Prakash	11/27/2006	
Charles Allerson	11/27/2006	
Prasad Dande	11/27/2006	
Richard H. Griffey	11/16/2006	

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US0417485

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:	CHEM0022WO
NAME OF SUBMITTER:	Laura Eames

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Total Attachments: 8 source=CHEM0022WOASGN#page1.tif source=CHEM0022WOASGN#page2.tif source=CHEM0022WOASGN#page3.tif source=CHEM0022WOASGN#page4.tif source=CHEM0022WOASGN#page5.tif source=CHEM0022WOASGN#page6.tif source=CHEM0022WOASGN#page7.tif

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PATENT

REEL: 018566 FRAME: 0422

ASSIGNMENT

WHEREAS, I/we, Balkrishen Bhat, of Carlsbad, CA, Eric E. Swayze, of Carlsbad, CA,

Thazha P. Prakash, of Carlsbad, CA, Charles Allerson, of San Diego, CA, Prasad Dande, of

Cambridge, MA, Richard H. Griffey, of Vista, CA, has/have invented a certain invention entitled

POSITIONALLY MODIFIED SIRNA CONSTRUCTS, for which I/we have made an application

for patents in the United States and foreign jurisdictions through the Patent Cooperation Treaty, said

application having been filed June 3, 2004, and assigned International Application No.

PCT/US2004/017485; and

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

Rutherford Road, Carlsbad CA, a corporation of Delaware, desires to acquire 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

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PATENT

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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.

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: 11 - 27 2006

Balkrishen Bhat

State of <u>California</u>)

County of San Dugo

SS.

On this _______ day of _________, 20 _______, 20 ________, before me, the undersigned, a Notary Public for the state, personally appeared **Balkrishen Bhat**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2008

WITNESS my hand and official seal.

Dated: 11/27 20<u>6</u>6

Eric E. Swayze

n6 En re

State of <u>California</u>

County of San Dlogo

Jun Dlego

On this 27th day of November, 2006, before me, the undersigned, a Notary Public for the state, personally appeared Eric E. Swayze, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2008

WITNESS my hand and official seal.

Dated: 11 27 2006

Thazha P. Prakash

State of <u>California</u>

SS

County of San Diego

On this _______ day of ________, 20_0, before me, the undersigned, a Notary Public for the state, personally appeared **Thazha P. Prakash**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2008

WITNESS my hand and official seal.

Dated: 11/27 20 0C Charles Allerson

State of California ss.

County of Gan Diago

On this 27th day of November, 20 do before me, the undersigned, a Notary Public for the state, personally appeared Charles Allerson, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity,

and that by his/her signature on the Assignment the person, or the entity on behalf of which the

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Dlego County
My Comm. Expires Apr 13, 2008

person acted, executed the Assignment.

WITNESS my hand and official seal.

Dated: <u>n 27</u> 20 0 6

Prasad Danda

STATEMENT OF WITNESSES

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

(1) Denwe Buff

Date: 1127/66

(2) N Shot

Date: 11/27/06

Dated:	11/16	20	მ6	

Rill Fr. Off

State of <u>California</u>)
County of <u>San Diago</u>

On this 10th day of November, 2006 before me, the undersigned, a

to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the

Notary Public for the state, personally appeared Richard H. Griffey, personally known to me/proved

person acted, executed the Assignment.

LAURA L. EAMES Commission # 1483258 Notary Public - California San Diego County My Comm. Expires Apr 13, 2008 WITNESS my hand and official seal.

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RECORDED: 11/30/2006