**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1  

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<th>SUBMISSION TYPE:</th>
<th>NEW ASSIGNMENT</th>
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<td>NATURE OF CONVEYANCE:</td>
<td>ASSIGNMENT</td>
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**CONVEYING PARTY DATA**

<table>
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<tr>
<th>Name</th>
<th>Execution Date</th>
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<tr>
<td>Xing-Xian Yu</td>
<td>11/20/2007</td>
</tr>
<tr>
<td>Sanjay Bhanot</td>
<td>11/19/2007</td>
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**RECEIVING PARTY DATA**

<table>
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<tr>
<th>Name</th>
<th>Isis Pharmaceuticals, Inc.</th>
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<tr>
<td>Street Address:</td>
<td>1896 Rutherford Road</td>
</tr>
<tr>
<td>City:</td>
<td>Carlsbad</td>
</tr>
<tr>
<td>State/Country:</td>
<td>CALIFORNIA</td>
</tr>
<tr>
<td>Postal Code:</td>
<td>92008</td>
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**PROPERTY NUMBERS Total: 2**

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<td>Application Number:</td>
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<td>PCT Number:</td>
<td>US0775297</td>
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**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:** BIOL0088

**NAME OF SUBMITTER:** Laura Eames

Total Attachments: 5  
source=BIOL0088ASGN#page1.tif
ASSIGNMENT

WHEREAS, I/we, Xing-Xian Yu, of San Diego, CA, Sanjay Bhanot, of Carlsbad, CA, Brett P. Monia, of Encinitas, CA, has/have invented a certain invention entitled COMPOSITIONS AND THEIR USES DIRECTED TO DIACYLGLYCEROL ACYLTRANSFERASE 1, for which I/we have made an application for letters patent of the United States and foreign jurisdictions through the Patent Cooperation Treaty, said applications having been filed 8/6/2007 and assigned application no. 11/834,640 and application no. PCT/US2007/075297; 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.

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.
IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 11/20/2007

Xing-Xian Yu

State of California )
County of San Diego ) ss.

On this 20th day of November, 2007, before me, the undersigned, a Notary Public for the state, personally appeared Xing-Xian Yu, 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.

WITNESS my hand and official seal.

Signature of Notary
Dated: November 19 2007

Sanjay Bhanot

State of California
County of San Diego

On this 19th day of November, 2007, before me, the undersigned, a Notary Public for the state, personally appeared Sanjay Bhanot, 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.

WITNESS my hand and official seal.

Signature of Notary
Dated: November 27, 2007

Brett P. Monia

State of California)
County of San Diego ) ss.

On this 27th day of November, 2007, before me, the undersigned, a Notary Public for the state, personally appeared Brett P. Monia, 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.

WITNESS my hand and official seal.

Signature of Notary