	00 11	
ISIS-4853		
To The Henorable Commissioner of Patents and travellations. Flease record the attached original documents or copy thereof.		
1. Name of conveying party(ies):	· · · · · ·	Name and address of receiving party(ies):
Thazha P. Prakash	/19/02 <sup>₹</sup>	Name: ISIS Pharmaceuticals, Inc.
First Assignor FINANCE SECTION	te of Execution	Trains. 1616 Thatmassations, inc.
	/23/02	Street Address: 2292 Faraday Avenue
	ate of Execution	City: Carlsbad
6.11	12	Carao California 710 02000
Third Assignor Da	ate of Execution	State California ZIP 92008
Time Assignor	H. C.	Additional name(s) & address attached? ( )YES (X)NO
Fourth Assistance	of Function	3. Nature of Conveyance (check only one):
Fourth Assignor Da	ite of Execution	(VI Nov. Agricoment
1.		(X) New Assignment () Merger () License Agreement () Security Agreement
Fifth Assignor Da	ate of Execution	() Change of Name () Other:
:		( )Cross-reference of Assignment filed in United States
Sixth Assignor Da	ate of Execution	Application No/, recorded on at
	r \$ and	Reel Noand Frame No
Additional name(s) of conveying party(ies) attached?	() YES (X) NO	
4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:		
Application Nos.:	Patent Nos.:	Date application was signed by the first
		named executing inventor
10/058,740		
		(Fill-in this date only if assignment is
filed together with a new application)		
<ol><li>Name and address of party to whom corresp concerning documents should be mailed:</li></ol>	pondence	6. Total number of applications and patents involved: 1
constraint accuments enough to manear	1 · . 4 ·	- Total Halliss of approaches and patents involved.
Joseph Lucci WOODCOCK WASHBURN LLP	a Sa	7. Total fee (37 CFR 3.41):\$40.00
One Liberty Place - 46th Floor		(X) Enclosed
Philadelphia, Pennsylvania 19103-7301		() Authorized to be charged to Deposit Account Number 23-3050
215-568-3100	i 🚉	Hambor 25 5555
		8. Please charge any deficiency or credit any
		overpayment to Deposit Account Number 23-3050
DO NOT USE THIS SPACE		
9. Statement and signature.		
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of		
the original document.		
Joseph Lucci/33,307	Usis	a frui Jus 4, 200 z
Name of Person Signing/Reg. No.	Signa	ture Date
Total number of pages including cover sheet, assignment document and additional pages attached thereto: 5		
. Mail documents to be recorded with required cover sheet in√ormation to:		
Commissioner of Patents and Trademarks  Box Assignments		
6/14/2002 DBYRNE 00000187 10058740	Washington,	
1 FC:581 40.00 8P		

PATENT REEL: 012978 FRAME: 0902 DOCKET NO.: ISIS-4853 PATENT

ASSIGNMENT

WHEREAS, we, Thazha P. Prakash and, Muthiah Manoharan, of 6928 Pear Tree

Drive, Carlsbad, California 92009, and 7634 Reposado Drive, Carlsbad, California 92009

have invented a certain invention entitled METHODS OF MODULATING

PHARMACOKINETICS OF OLIGONUCLEOTIDES, for which we have made an application

for Letters Patent of the United States, said application having been filed January 28, 2002 and

assigned Application No. 10/058,740; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292

Faraday Avenue, 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

ASSIGNMENT - Page 1 of 4

PATENT

REEL: 012978 FRAME: 0903

DOCKET NO.: ISIS-4853 PATENT

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.

ASSIGNMENT - Page 2 of 4

REEL: 012978 FRAME: 0904

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

Dated: 4-19, 2002

Thazla P. Prakasl

State of California

ss.

County of San Diego

Signature of Notary

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - Page 3 of 4

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

Dated: Aml 23 , 2002

Muthiah Manoharan

State of California

SS.

County of San Diego

On this day of day of , 2003, before me, the undersigned, a Notary Public for the state, personally appeared Muthiah Manoharan, 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.

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

**RECORDED: 06/11/2002** 

WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT - Page 4 of 4

PATENT REEL: 012978 FRAME: 0906