FORM PTO-1595

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MRD 1-31-92 *G-37-*99 Docket No.: **ISPH-0388** 

09-30-1999

J.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

101158273

## RECORDATION FORM COVER SHEET PATENTS ONLY

	ID NO.					
To The Honorable Commissioner of Patents and Traden	narks. Please record the attached original document(s) or copy thereof.					
1. Name of conveying party(ies): Nicholas M. Dean, Robert McKay, Loren Miraglia and Brenda Baker	2. Name and address of receiving party(ies): Name: Isis Pharmaceuticals Inc. Internal Address: Carlsbad Research Center					
Additional name(s) of conveying party(ies) attached? ( ) YES (XX) NO	Street Address: 2292 Faraday Avenue City: Carlsbad State: California Zip: 92008					
3. Nature of Conveyance: (XX) Assignment ( ) Merger ( ) Name Change ( ) Security Agreement ( ) Other: Execution date: September 13, 1999	Additional names (s) & address attached?  ( ) YES (XX) NO					
4. Application number(s) or patent number(s): A. Patent Application No(s). 09/364,416 FILED July 30, 1999 B. Patent No(s). If this document is being filed together with a new application, the execution date of the application is: Additional numbers attached? ( ) YES (XX) NO						
5. Name and address of party to whom correspondence concerning documents should be mailed:	6. Total number of applications and patents involved: One (1)					
Jane Massey Licata, Esq. Law Offices of Jane Massey Licata 66 E. Main Street	<ul><li>7. Total fee (37 CFR 3.41): \$</li><li>( ) Enclosed</li><li>(XX) Authorized to be charged to deposit account.</li></ul>					
Marlton, New Jersey 08053	8. Deposit Account number: 12-1086 (Attach duplicate copy of this page if paying by deposit account.)					
DO NO	T USE THIS SPACE					
9. Statement and signature. To the best of correct and any attached copy is a true copy	my knowledge and belief, the foregoing information is true and of the original document.					
Jane Massey Licata, Reg. No. 32,257 Name of Person Signing						
Signature January Jugari September 23, 1999						
Total number of pages comprising cover sheet, attachments, and document: Six						
30/1999 MTHAI1 00000078 121086 09364416 )						

**PATENT** 

**REEL: 010267 FRAME: 0668** 

DOCKET NO.: ISPH-0388 PATENT

## ASSIGNMENT

WHEREAS, We, Nicholas M. Dean, of Encinitas, State of California; Robert McKay, of San Diego, State of California; Loren Miraglia, of Encinitas, State of California; and Brenda Baker, of Carlsbad, State of California, have invented a certain invention entitled Antisense Oligonucleotide Compositions and Methods for the Modulation of Activating Protein 1, for which we have made application for Letters Patent of the United States, said application having been filed July 30, 1999 and assigned Application No. 09/364,416; 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

ASSIGNMENT - PAGE 1 OF 5

DOCKET NO.: ISPH-0388

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 its successors, assigns, nominees, or 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

ASSIGNMENT - PAGE 2 OF 5

State of California

acted, executed the Assignment.

seals.

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

1 1

DATED: Sor 3	_, 1999	NICHOLAN M. DEAN
DATED: <b>56%. 13</b>	_, 1999	ROBERT MCKAY
DATED: 247	_, 1999	Joen Minaghi LOREN MIRAGINA
DATED: lug 31	_, 1999	BRENDA BAKER

## [WHERE ALL INVENTORS SIGN BEFORE THE SAME NOTARY]

County of Sar	n Diego	)				
On	this	day of		, 1999, 1	before me	e, the
undersigned,	a Notary P	ublic for	the state	, person	nally app	beared
@@, personal	lly known	to me/pr	coved to	me on	the basi	is of
satisfactory						
Assignment an						
his/her author		_				
Assignment th	<del>-</del>	-	-		~	

ss.

WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT - PAGE 3 OF 5

## [WHERE INVENTORS SIGN BEFORE SEPARATE NOTARIES]

On this 3/3 day of which the state, personally appeared undersigned, a Notary Public for the state, personally appeared 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

On this 30d day of Statement, 1999, before me, the Nicholas M. Dandersigned, a Notary Public for the state, personally appeared ed, 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.

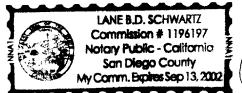


WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT - PAGE 4 OF 5

On this day of Leptenber, 1999, before me, the undersigned, a Notary Public for the state, personally appeared to 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.

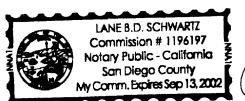
State of California ) ss.

County of San Diego

Robert Mckay-

On this day of the state, personally appeared undersigned, a Notary Public for the state, personally appeared en 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.

Signature of Notary



**RECORDED: 09/27/1999** 

WITNESS my hand and official seal.

Signature of Notar

ASSIGNMENT - PAGE 5 OF 5