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U.S. DEPARTMENT OF COMME!	RCE
U.S. PATENT AND TRADEMARK OFF	ICE

RECORDATION FORM COVER SHEET PATENTS ONLY

	<u>. </u>	TO THE DIRECT	OR OF THE UNITED	STATES PATEN	T AND TRADEM. JMENTS OR COP	ARK OFFICE: Y THEREOF.		
1,		Conveying party(ie		2			<u> </u>	
7.1	Name(s)		ExecutionDate(s		X Assignr		rity Agreement	
Ba	ılkrishen Bhat		June 26, 2003		Merger		ge of Name	
	nillip Dan Cook				<u> </u>	Crian	ge of Marile	
<u> </u>	IIIIP Dan Gook	<u>.</u>	<u>June 26, 2003</u>		Other:		 	
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' <u> </u>	<u> </u>					dress of receiving		
		 -				rmaceuticals, Inc	ļ	
		- .		l	nternal Address:	1896 Rutherfor	rd Road	
	<u> </u>				Street Address:	<u> </u>	<u> </u> 	
					City & State: C	ar <u>isbad. Californi</u>	<u></u>	
- T					Zip/Postal Code	92008-7326		
***	<u> </u>	············						
	litional name(s) of co	onveying party(ies) a	attached? Yes		Additional name addresses attac		res X No	
.4.	Application number	(s) or patent number	r(s) are as follows:		Sled on	September 26, 2	2005	
		ition No(s). <u>10/520.</u> 9	<u> </u>	.	, filed on	September 20, 2		
	and titled: THIONUCLEC	OSIDE DERIVATIVE	ES AS INHIBITORS	OF RNA-DEP	ENDENT RNA V	IRAL POLYMER	ASE	
	(b) If this docume	nt is being filed toge	ether with a new app					
			Add	ditional number	s attached?	Yes	X No	
5.				6. Total no	o, of applications	& patents involv	/ed: 1	
	_	ents should be maile	: a :	7. Total fe	e (37 CFR 3.41)	λ	<u>\$ 40.00</u>	
	Name: <u>Kenneth R</u>	. vvaitor		Г	Enclosed			
	Internal Address:	PATENT DEPAR	191-13-3	_ [*	— ☑ The Director	is hereby author	rized to charge the o	lepos
•		MERCK & CO., IN P.O. BOX 2000		14	account nun be required	nber entered belo or to credit any o	ow for any fees which verpayment.	n ma
	City & State:	RAHWAY, N.J.	Zip: 07065-090	8. Deposit	account numb		 	
<u></u>	<u>-</u>		DO NOT	USE THIS SPA	VCE		!	
9.	Statement and sign	nature:				<u></u>	· ·	
			f, the foregoing info	rmation is true	and correct and	any attached cor	ον is a true copy of t	he.
h	original document.	-		\mathcal{T}	- D	7	_	~ ~ .
	Kenneth R. Waltor		No. <u>32,951</u>	/lena	<u>eall K. // .</u> Signatur	<u>) </u>	Date 1	<u>y, 0</u>
	Name of Perso				•			
		Total ni	umber of pages inclu	iding cover she	eet, attachments	, and documents	5	alchburer
NOTE	: Send to Mall S	top Assignment	Recordation Ser	ices or Fax	to Patent and	Trademark Of	fice at (571) 273-	0140
	9	CERTIF	ICATE OF MAILI	NG OR FACS	SIMILE TRANS	MISSION	ородина и и при при при при при при при при при	Samuel
	I hereby certify that addressed to: Direc Trademark Office or	this correspondence is bo tor of the U.S. Patent and i:	sing deposited with the Urd Trademark Office, P.O.	nited States Postal Box 1450, Alexand	Service with sufficier ria, VA 22313-1450.	nt postage as first clas , or facsimile transmitt	ss mait in an envelope ted to the U.S. Patent and	1
17	Name (Print/Type	∍) Jodi Hobbs				-bbbbbbbbbbbbb-	: 	
	Signature	Lode	Holden	20 ac 24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Date No	V. 28,	2007	

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NO. 977 P. 2

JOINT PATENT

Attorney Docket Number 21194
U.S. Serial No. 10/520,925
Filing Date 09/26/2005

ASSIGNMENT

WHER	EAS, v	ve Balkrish e n	Bhat of Carlsbad,	CA and Phillip Dan Cook	of Fallbrook, CA,
hereinafter refe	rred to a	as the assignor	s, are the joint inve	ntors of certain inventions or	improvements for
which we have	made a	pplication for l	Letters Patent to th	e United States, entitled TH	IONUCLEOSIDE
DERIVATIVE	S AS II	NHIBITORS C	F RNA-DEPEND	ENT RNA VIRAL POLYM	ERASE described
in applications	for Pat	tents having A	ttomey Docket n	ımber 21194 and in applica	ation(s) Serial No.
60/398,237	filed_	07/24/2002	_; Serial No	filed	
No		_ filed	; (if appl	icable).	

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 been held and

ASSIGNMENT - Page 1 of 4

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NO. 977

JOINT PATENT

Attorney Docket Number 21194
U.S. Scrial No. 10/520, 925
Filing Date 09/26/2005

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 assignce, 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.

WE hereby authorize our attorney, Philippe L. Durette or an attorney with Power of Attorney in this application of the said ISIS Pharmaceuticals, Inc. to insert Serial No.,(s) and Filing **Date(s)** of said application(s) when known.

ASSIGNMENT - Page 2 of 4

JOINT PATENT

Attorney Docket Number 21194
U.S. Serial No. 10/520, 925
Filing Date 09/26/2005

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

Dated: 6/2/0 20<u>6</u>3

Balkrishen Bhat

State of California) ss.
County of San Diego)

LANE 8.D. SCHWARTZ
Commission # 1370308
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2006

(1) and 1

WITNESS my hand and official seal.

[SEAL]

ASSIGNMENT - Page 3 of 4

PATENT REEL: 020171 FRAME: 0204

JOINT PATENT

Attorney Docket Number 21194

U.S. Serial No. 10/520,925 Filing Date 09/26/2005

Phillip Dan Cook

State of California

SS.

County of San Diego

day of _______, 2003, before me, the undersigned, a Notary Public for the state, personally appeared Phillip Dan Cook, 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

LANE B.D. SCHWARTZ Commission # 1370308 Notary Public - California San Diego County My Comm. Expires Sep 13, 2006

person acted, executed the Assignment.

WITNESS my hand and official seal,

ASSIGNMENT - Page 4 of 4

PATENT REEL: 020171 FRAME: 0205

RECORDED: 11/28/2007