

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027

(exp. 5/31/2002)

## RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
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## PATENTS ONLY

IBIS0024-100/TIGR0027US

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To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

- 1) David J. Ecker
- 2) Richard H. Griffey
- 3) Rangarajan Sampath
- 4) Steven A. Hofstadler
- 5) John McNeil
- 6) Stanley T. Croke

Additional name of conveying party(ies) attached?

☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: ISIS Pharmaceuticals, Inc.

Street Address: 2292 Faraday Avenue

City: Carlsbad State: California Zip: 92008

Additional Name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment
- ☐ Merger ☐ License Agreement
- ☐ Security Agreement ☐ Change of Name
- ☐ Other

Execution Dates: 1) August 5, 2003; 2) July 29, 2003; 3) July 29, 2003; 4) July 29, 2003; 5) July 29, 2003; and 6) August 7, 2003

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

10/418,514

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Paul K. Legaard  
Cozen O'Connor, P.C.  
1900 Market Street  
Philadelphia, PA 19103  
215-665-2000

6. Total number of applications and patents involved: 017. Total fee (37 CFR 3.41) . . . . . \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Please charge any deficiency or credit any overpayment to Deposit Account Number 50-1275

(Attach duplicate copy of this page if paying by deposit account)

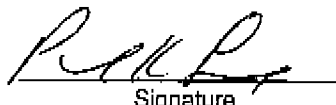
## DO NOT USE THIS SPACE

## 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.*

Paul K. Legaard/38,534

Name of Person Signing/Reg. No.



Signature

14 AUGUST 2003

Date

Total number of pages including cover sheet, attachments, and documents: 09

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT

REEL: 013876 FRAME: 0905

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CH \$40.00 501275 10418514

**DOCKET NO.: IBIS0024-100/TIGR0027US****PATENT****ASSIGNMENT**

WHEREAS, I/we, **David J. Ecker of Encinitas, California, Richard H. Griffey of Vista, California, Rangarajan Sampath of San Diego, California, Steven A. Hofstadler of OceanSIDE, California, John McNeil of La Jolla, California and Stanley T. Crooke of Carlsbad, California** has/have invented a certain invention entitled **"Methods and Apparatus for Genetic Evaluation,"** for which I/we have made an application for Letters Patent of the United States, said application having been filed **April 18, 2003** and assigned Application No. **10/418,514;** 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 been held and enjoyed by us had this assignment, sale and transfer not been made.

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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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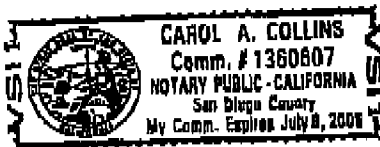
PATENT

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

Dated: 8-5, 2003David J. Ecker  
David J. EckerState of California )  
 ) ss.  
County of San Diego )

On this 5<sup>th</sup> day of August, 2003, before me, the undersigned, a Notary Public for the state, personally appeared David J. Ecker, 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.

Carol A. Collins  
Signature of Notary

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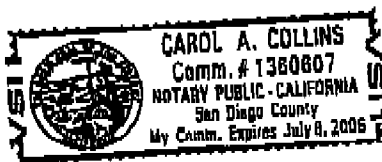
DOCKET NO.: IBIS0024-100/TIGR0027US

PATENT

Dated: June 29, 2003Richard H. Griffey  
Richard H. GriffeyState of California )  
County of San Diego ) ss.

On this 29<sup>th</sup> day of July, 2003, before me, the undersigned, a Notary Public for the state, personally appeared **Richard H. Griffey**, 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.

Carol A. Collins  
Signature of Notary

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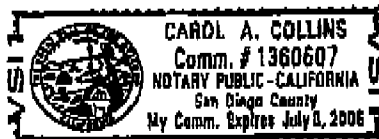
DOCKET NO.: IBIS0024-100/TIGR0027US

PATENT

Dated: 07-29, 2003  
Rangarajan SampathState of California )  
County of San Diego ) ss.

On this 29<sup>th</sup> day of July, 2003, before me, the undersigned, a Notary Public for the state, personally appeared **Rangarajan Sampath**, 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

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DOCKET NO.: IBIS0024-100/TIGR0027US

PATENT

Dated: 7.29, 2003Steven A. Hofstadler  
Steven A. HofstadlerState of California )  
County of San Diego ) ss.

On this 29<sup>th</sup> day of JULY, 2003, before me, the undersigned, a Notary Public for the state, personally appeared **Steven A. Hofstadler**, 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.

Carol A. Collins  
Signature of Notary

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DOCKET NO.: IBIS0024-100/TIGR0027US

PATENT

Dated: 7/29, 2003  
John McNeil

State of California )

ss.

County of San Diego )

On this 29<sup>th</sup> day of July, 2003, before me, the undersigned, a Notary Public for the state, personally appeared John McNeil, 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

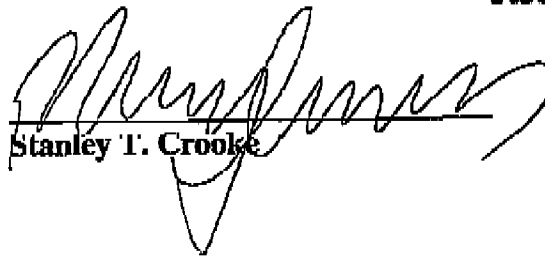


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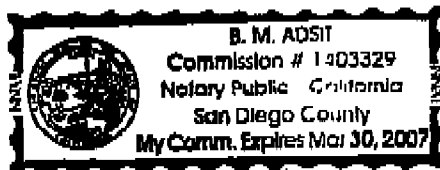
PATENT

Dated: August 7, 2003  
Stanley T. Crooke

State of California            )  
                                      )  
County of San Diego         )       ss.

On this 7th day of August, 2003, before me, the undersigned, a Notary Public for the state, personally appeared Stanley T. Crooke, 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

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