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FORM PTO-1595
(Rev. 6-93)

U.S. Department of Commerce

OMB No. 0651-0011 (exp. 4/94)

101655414

Patent and Trademark Office

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

1. Name of conveying party(ies):

Donald E. Macfarlane and Fyaz M.D. Ismail

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Name: The University of Iowa Research Foundation

Street Address: 100 Oakdale Campus #214 TIC

City: Iowa City State: Iowa Zip: 52242

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

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

Execution Date: 1/19/01 and 3/9/01

4. Application number(s) or registration 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):

09/595,875

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

Name: Gina N. Shishima
FULBRIGHT & JAWORSKI, L.L.P.
600 Congress Avenue, Suite 2400

City: Austin State: Texas Zip: 78701

6. Total number of applications and patents involved: 17. Total fee (37 C.F.R. 3.41)----- \$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account
if check insufficient or inadvertently omitted8. Deposit account number: 50-1212/10008939/GNS
(Attach duplicate copy of this page if paying by deposit account)

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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.

Gina N. Shishima

03/12/2001

Name of Person Signing, Reg. No. 45,104

Signature

Date

Total number of pages including cover sheet, attachments and documents: 5Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignment, Washington, D.C. 20231CERTIFICATE OF MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Box Assignment, Washington, DC 20231, on the date below:

March 12, 2001
Date

Gina N. Shishima

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PATENT
REEL: 011631 FRAME: 0072

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to The University of Iowa Research Foundation (the "Assignee"), having a place of business at 100 Oakdale Campus #214 TIC, Iowa City, Iowa 52242, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. **09/595,875** which has been filed on **June 16, 2000** and is entitled "**ANTAGONISM OF IMMUNOSTIMULATORY CpG-OLIGONUCLEOTIDES BY 4-AMINOQUINOLINES AND OTHER WEAK BASES**", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: *Donald E. Macfarlane*
Name: Donald E. Macfarlane

Date: Jan 19 2001

STATE OF Iowa)
) ss.
COUNTY OF Johnson)

BEFORE ME, the undersigned authority, on this 19th day of January, 2001, personally appeared Donald E. Macfarlane, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Christine M. Ahlvers
Notary or Consular Officer

[SEAL]



FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701

PATENT
FILE NO. IOWA:028US

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to The University of Iowa Research Foundation (the "Assignee"), having a place of business at 100 Oakdale Campus #214 TIC, Iowa City, Iowa 52242, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 09/595,875 which has been filed on June 16, 2000 and is entitled "ANTAGONISM OF IMMUNOSTIMULATORY CpG-OLIGONUCLEOTIDES BY 4-AMINOQUINOLINES AND OTHER WEAK BASES ", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

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COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

25006012.1

PATENT
REEL: 011631 FRAME: 0075

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: _____

Name: Fyaz M.D. Ismail

Date: _____

9. March 2001

STATE OF _____)

COUNTY OF Hertfordshire) ss.

BEFORE ME, the undersigned authority, on this 9th day of March 2001, personally appeared Fyaz M.D. Ismail, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



[SEAL]

University of Hertfordshire

Witness _____

As a representative of the University of Hertfordshire, I hereby acknowledge that Fyaz M.D. Ismail will be assigning his entire right, title and interest to the above-referenced patent application to the The University of Iowa Research Foundation.

UNIVERSITY OF HERTFORDSHIRE

NAME: _____

TITLE: _____

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701